



STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.0
TOWER AVENUE, 64th - 52nd STANDARD ABBREVIATIONS, S.D.D.S. UTILITIES & GENERAL NOTES	
S.T.H. 35	DOUGLAS COUNTY

STANDARD ABBREVIATIONS

ACG	AGGREGATE	FT	FOOT	RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
AH	AHEAD	GAL	GALLON	REOD	REQUIRED
ASPH	ASPHALTIC	G	GAS	RT	RIGHT
AC	ASPHALT CEMENT	GR	GRAVEL	R/W	RIGHT OF WAY
APM	ASPHALTIC PLANT MIX	HR	HANDICAP RAMP	SAN	SANITARY (SEWER)
AVG	AVERAGE	HES	HIGH EARLY STRENGTH	SHLDR	SHOULDER
ADT	AVERAGE DAILY TRAFFIC	CWT	HUNDREDWEIGHT	SHR	SHRINKAGE
BK	BACK	HYD	HYDRANT	SR	SIDE ROAD
B&B	BALLED AND BURLAPPED	I.D.	INCH DIAMETER	SDWK	SIDEWALK
B&P	BALLED AND POTTED	INL	INLET	S	SOUTH
BR	BARE ROOT	INT	INTERSECTION	SB	SOUTHBOUND
BRP	BARE ROOT POTTED	INV	INVERT	SP	SPECIAL
BM	BENCH MARK	IP	IRON PIPE	SPECS	SPECIFICATIONS
BLK	BLOCK	LT	LEFT	SF	SQUARE FOOT
CB	CATCH BASIN	LIN FT	LINEAR FOOT	SY	SQUARE YARD
C/L	CENTERLINE	LS	LUMP SUM	STD	STANDARD
CL	CLASS	ML	MAINLINE	SDD	STANDARD DETAIL DRAWING
CE	COMMERCIAL ENTRANCE	MH	MANHOLE	STH	STATE TRUNK HIGHWAY
CONC	CONCRETE	MKG	MARKING	STA	STATION
CORR	CORRUGATED	NC	NORMAL CROWN	SSD	STOPPING SIGHT DISTANCE
CY	CUBIC YARD	N	NORTH	SS	STORM SEWER
CP	CULVERT PIPE	NB	NORTHBOUND	SE	SUPERELEVATION
C&G	CURB AND GUTTER	OBLIT	OBLITERATE	SURF	SURFACE
DHV	DESIGN HOUR VOLUME	PAVT	PAVEMENT	T	TANGENT
DIA	DIAMETER	PU	PIPE UNDERDRAIN	TEL.PED	TELEPHONE PEDESTAL
D	DIRECTIONAL DISTRIBUTION	PC	POINT OF CURVATURE	TV	TELEVISION CABLE
DISCH	DISCHARGE	PI	POINT OF INTERSECTION	TEMP	TEMPORARY
EA	EACH	PT	POINT OF TANGENCY	TLE	TEMPORARY LIMITED EASEMENT
E	EAST	POC	POINT ON CURVE	T	TRUCKS (% OF)
ELEC	ELECTRIC (AL)	POT	POINT ON TANGENT	TYP	TYPICAL
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE	UNCL	UNCLASSIFIED
EW	ENDWALL	PCC	PORTLAND CEMENT	UG	UNDERGROUND CABLE
ENT	ENTRANCE	LB	POUND	V	VELOCITY OR DESIGN SPEED
EXC	EXCAVATION	PSI	POUND PER SQUARE INCH	VC	VERTICAL CURVE
EBS	EXCAVATION BELOW SUBGRADE	PE	PRIVATE ENTRANCE	VOL	VOLUME
EXIST	EXISTING	PROJ	PROJECT	WM	WATER MAIN
FF	FACE TO FACE	R	RADIUS	WV	WATER VALVE
FL	FLOW LINE	RP	RADIUS POINT	W	WEST
		RR	RAILROAD	YD	YARD

UTILITIES

WISC. BELL INC.
304 S. DEWEY ST.
EAU CLAIRE, WI. 54701
CONTACT: VERN SCHULTZ
TELEPHONE (715) 839-5819

CITY OF SUPERIOR
SANITARY SEWER SYSTEM (PUBLIC WORKS)
SUPERIOR, WI. 54880
CONTACT: JEFF VITO
TELEPHONE (715) 394-0334

BRESNAN COMMUNICATIONS CO.
302 E. SUPERIOR STREET
DULUTH, MN. 55802
CONTACT: JIM MATUSZEWSKI
TELEPHONE (218) 722-2815

SUPERIOR WATER, LIGHT & POWER COMPANY
1230 TOWER AVE.
SUPERIOR, WI. 54880
CONTACT: DAVID SMITH (ELECTRIC)
CONTACT: DALE GROTHE (WATER & GAS)
TELEPHONE (715) 394-5511

DIGGERS HOTLINE
2040 WEST WISCONSIN AVENUE
SUITE 10
MILWAUKEE, WI. 53233
TELEPHONE 1-800-242-8511

BURLINGTON NORTHERN
1 NORTH AVENUE
CARLTON, MN. 55718
CONTACT: DAVE NOLANDER (SIGNAL WORK)
TELEPHONE (612) 228-4029
2304 N. 28TH. STREET
SUPERIOR, WI. 54880
CONTACT: WICK SANFORD (CROSSING WORK)
TELEPHONE (715) 394-1235

GENERAL NOTES

ALL ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.).

WHEN THE QUANTITY OF CRUSHED AGGREGATE BASE COURSE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

WASTE AREAS SHALL BE SEEDED WITH SEED MIXTURE NO. 10.

BEARINGS ON THIS PLAN ARE GRID BEARINGS TO THE NEAREST SECOND.

THE EXACT LOCATION OF PRIVATE AND COMMERCIAL ENTRANCES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

SAWED JOINTS ARE REQUIRED WHERE NEW SURFACING JOINS EXISTING PAVEMENT.

CURB AND GUTTER RADII ARE SHOWN TO THE FACE OF CURB.

TYPE 1 OR 1A CURB RAMPS WILL BE CONSTRUCTED AT EVERY RADIUS AS APPROPRIATE UNLESS OTHERWISE INDICATED ON THE PLAN / PROFILE SHEETS.

INLET GRADE ELEVATIONS ARE DEPRESSED 0.1 FOOT FROM NORMAL FLOWLINE.

DISTURBED AREAS WITHIN CONSTRUCTION LIMITS, EXCLUDING ROADBED, ARE TO BE FERTILIZED AND SODDED OR SEEDED.

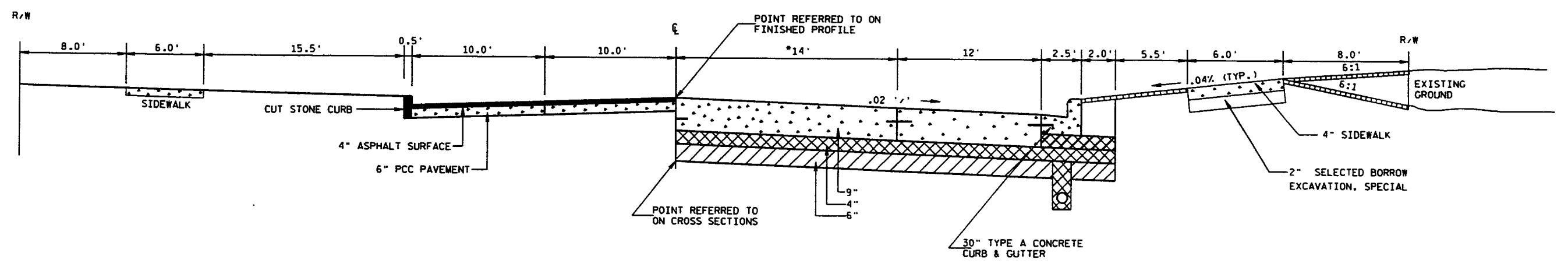
STANDARD DETAIL DRAWINGS

TITLE	NUMBER	TITLE	NUMBER
INLET COVERS	8A5-11a	HARDWARE DETAILS FOR POLE MOUNTINGS	9E1-1e
INLET COVERS	8A5-10b	NON-FREEWAY LIGHTING UNIT POLE WIRING	9E3-1
INLET AND MANHOLE COVERS	8A5-11d	PAVEMENT DETAILS FOR RAILROAD APPROACH	13B1-4
CATCH BASINS, TYPES 3 AND 5	8A7-3	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND PAVEMENT TIES	13C1-9
MANHOLES, TYPE 1	8B6-3	DOWELED NON-REINFORCED CONCRETE PAVEMENT (TRANSVERSE JOINTS SPACED AT 20' & NORMAL)	13C13-1
MANHOLES, TYPES 2 AND 3	8B7-3	TREE PLANTING DETAIL	14A2-1
INLETS, TYPE 8,9,10 & 11	8C5-2	BARRICADES AND SIGNS FOR ROAD CLOSURES	15C2-3
CONCRETE CURB, CONCRETE CURB AND GUTTER		PAVEMENT MARKING SYMBOLS	15C7-4a
AND PAVEMENT TIES	8D1-11	PAVEMENT MARKING (MAINLINE)	15C8-7a
CURB RAMPS	8D5-8	PAVEMENT MARKING (LEFT TURN LANE)	15C8-7c
EDGE DRAIN OUTLET DETAILS	8D15-10	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)	15C8-7d
EDGE DRAIN & CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 1 OR NO. 2	8D15-10	PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS	15C9-3
TYPICAL INSTALLATIONS OF EROSION BALES	8E8-2	TRAFFIC CONTROL FOR LANE CLOSURES (SUITABLE FOR MOVING OPERATIONS)	15C12-2
SILT FENCE	8E9-4	LANDMARK REFERENCE MONUMENTS AND COVERS	16A1-5
CONDUIT	9B2-5		
PULL BOX	9B4-1		
CONCRETE CONTROL CABINET BASES	9C5-1		
CABINET SERVICE INSTALLATION	9D1-1		
SIGNAL OR LIGHTING CONTROL CABINET	9D2-1		

GENERAL LEGEND

	CONCRETE PAVEMENT (DOWELED)
	CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2
	CRUSHED AGGREGATE BASE COURSE
	TOPSOIL, FERTILIZER & SOD TO CONSTRUCTION LIMITS
	ASPHALTIC CONCRETE PAVEMENT, TYPE MV

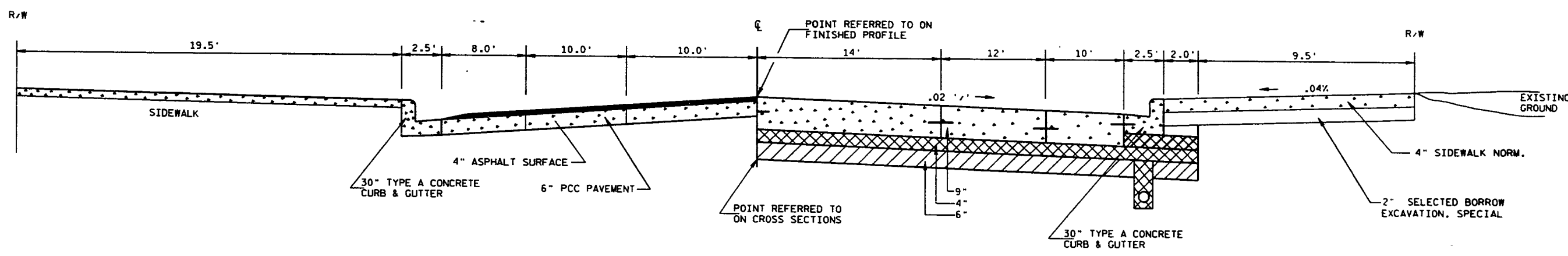
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TYPICAL EXISTING HALF SECTION TYPICAL FINISHED HALF SECTION

TOWER AVENUE

STA. 474+89 TO STA. 487+98.5
 STA. 501+46.5 TO STA. 527+25
 *12' AT STA. 474+42 TO STA. 474+89

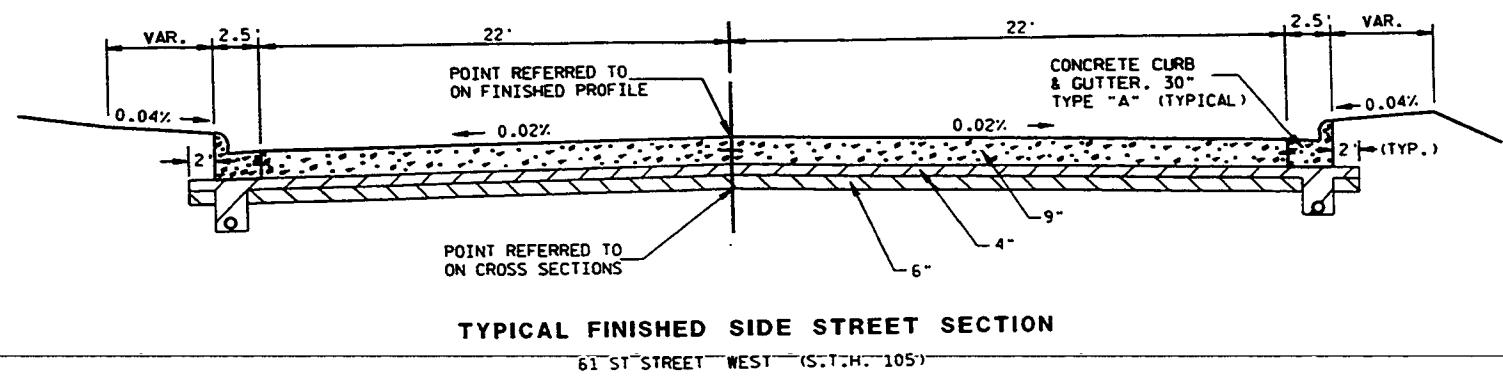
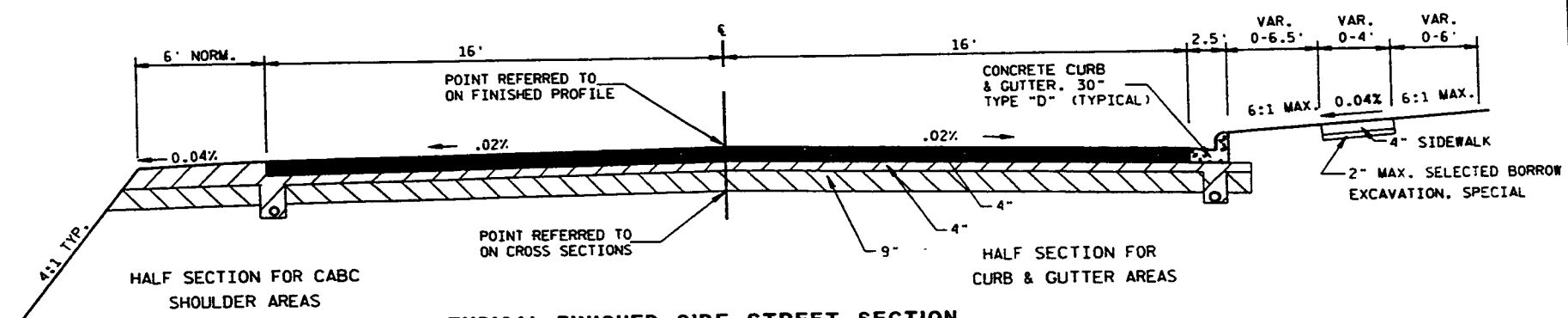
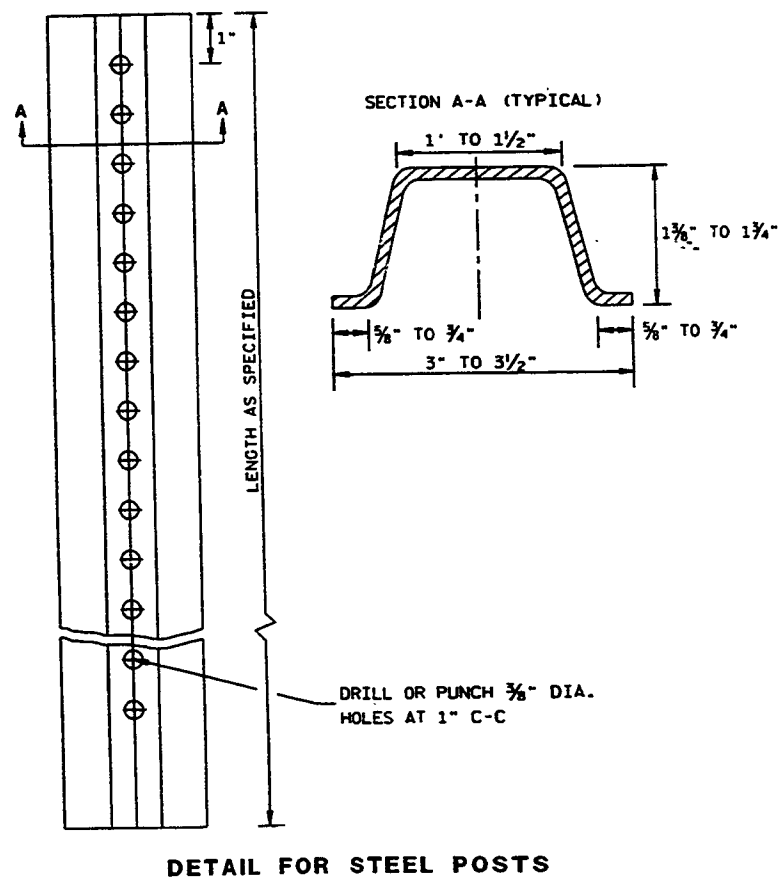
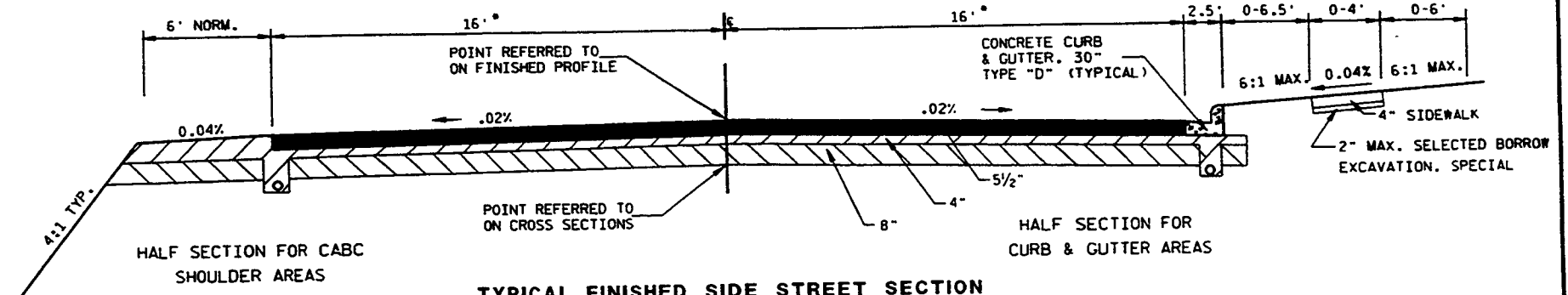
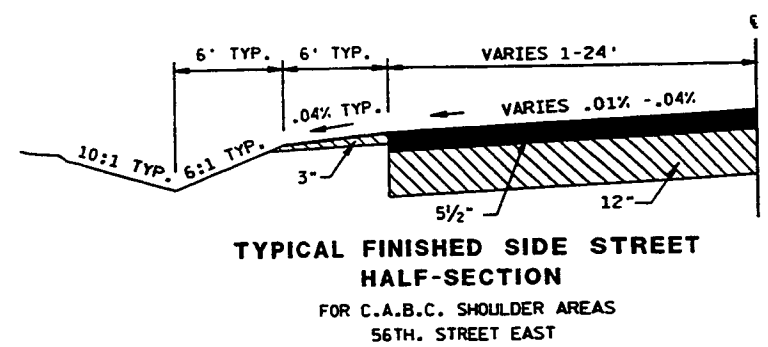


TYPICAL EXISTING HALF SECTION TYPICAL FINISHED HALF SECTION

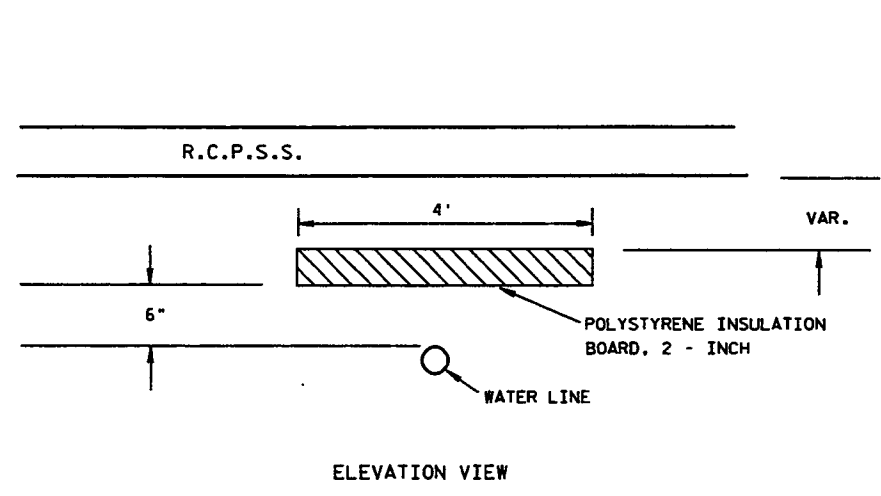
TOWER AVENUE

STA. 487+98.5 TO STA. 501+46.5

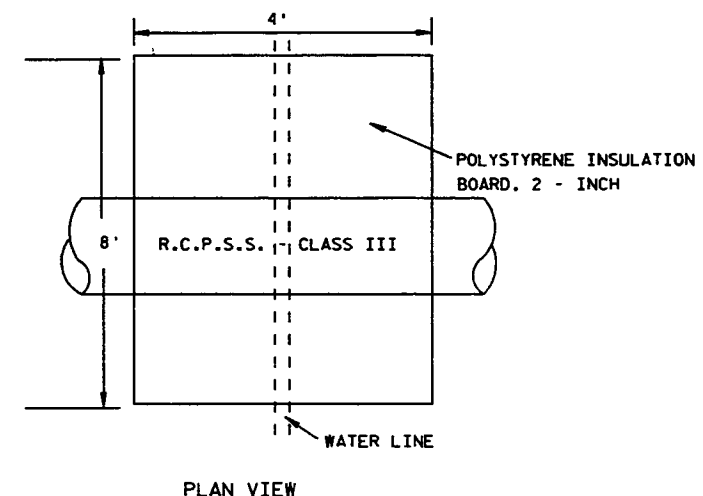
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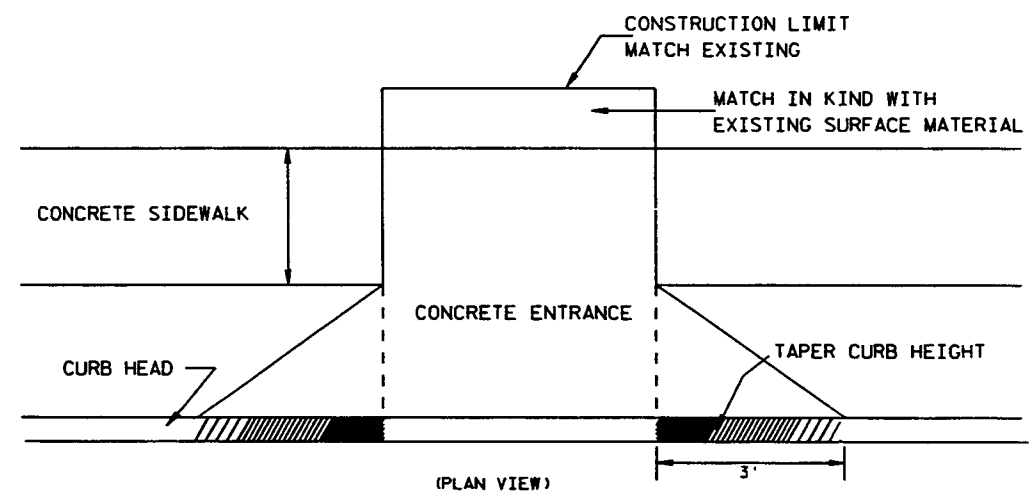
ELEVATION VIEW



PLAN VIEW

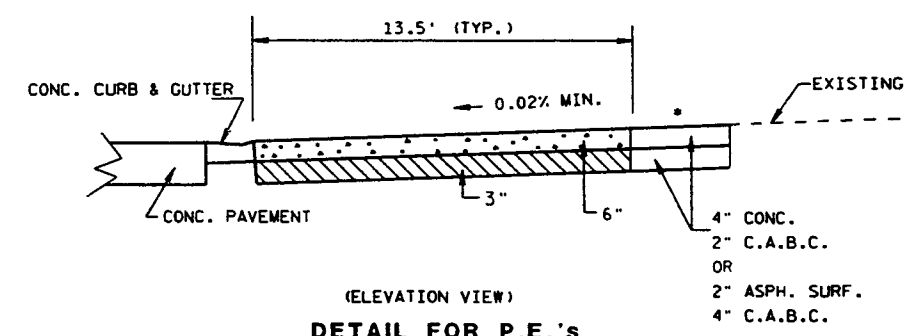
TYPICAL FOR POLYSTYRENE INSULATION BOARD

GENERAL LEGEND	
	CONCRETE PAVEMENT (DOWELED)
	CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2
	CRUSHED AGGREGATE BASE COURSE
	TOPSOIL, FERTILIZER & SOD TO CONSTRUCTION LIMITS
	ASPHALTIC CONCRETE PAVEMENT, TYPE MV

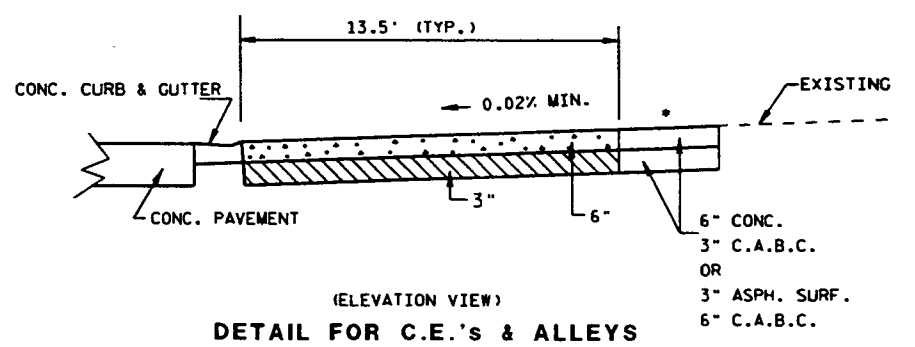


DETAIL FOR P.E.'s, C.E.'s & ALLEYS

WIDTH OF C.E.'S 35' MAX., 12' MIN.
 WIDTH OF P.E.'S 24' MAX., 16' MIN.
 WIDTH OF ALLEYS 16' MAX., 12' MIN.

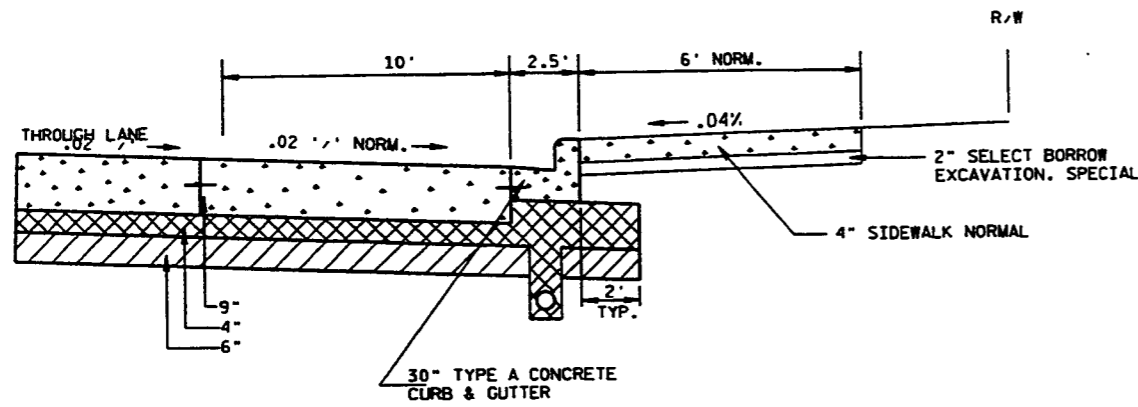


DETAIL FOR P.E.'s
 * SLOPE VARIES - .04% TO .07%

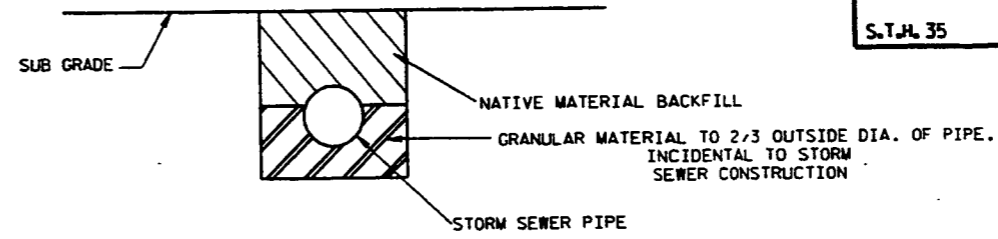


DETAIL FOR C.E.'s & ALLEYS
 * SLOPE VARIES - .04% TO .07%

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

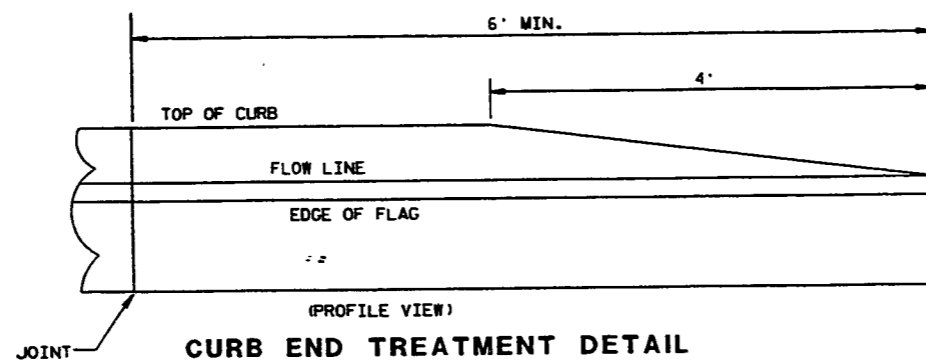


TYPICAL BUS TURNOUT
 STA. 502+55.5-503+95.5 RT.
 STA. 504+68-505+68 LT.



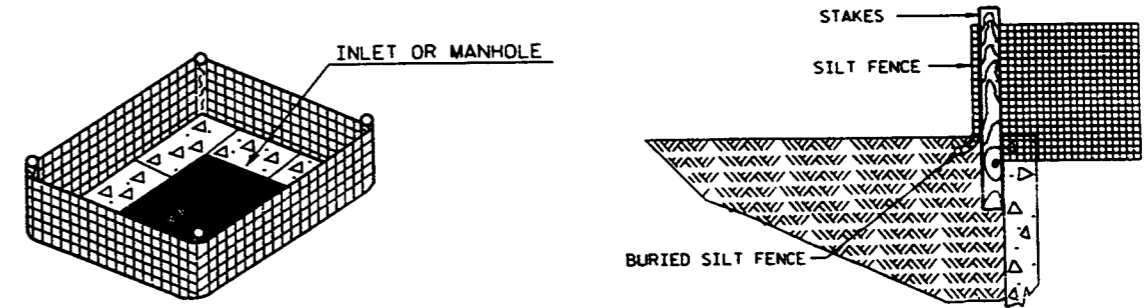
DETAIL FOR STORM SEWER BEDDING

EROSION CONTROL DETAILS

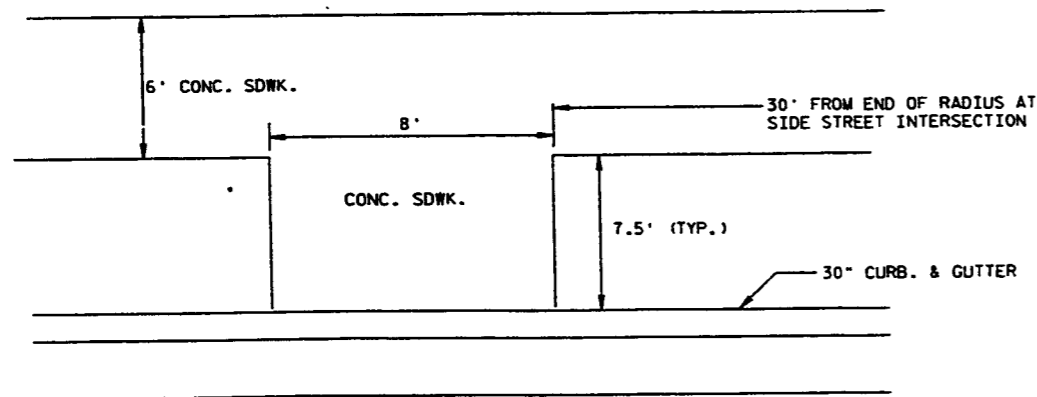


CURB END TREATMENT DETAIL

THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

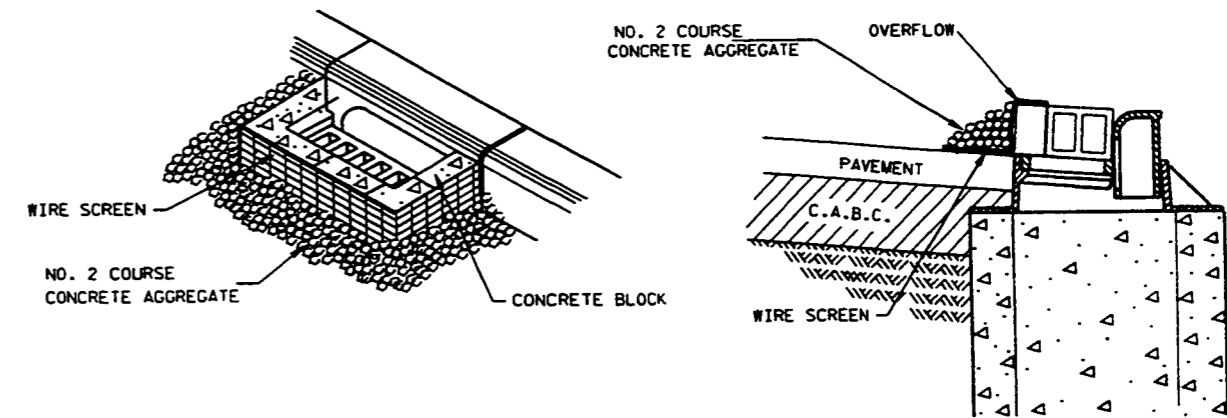


SILT FENCE MANHOLE & INLET SEDIMENT FILTER
 NOTE: TO BE INSTALLED UPON THE COMPLETION OF BACKFILLING THE STRUCTURE



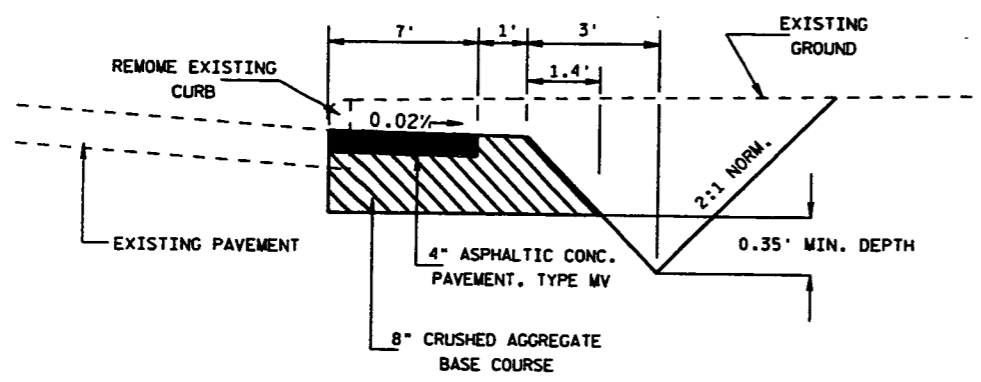
DETAIL FOR CONCRETE SIDEWALK FOR BUS STOPS (PLAN VIEW)

- STA. 510+63-510+71 LT.
- STA. 512+29-512+37 RT.
- STA. 515+48.2-515+56.2 LT.
- STA. 517+06-517+14 RT.
- STA. 520+28.2-520+36.2 LT.
- STA. 522+01.2-522+09.2 RT.
- STA. 524+43-524+51 LT.
- STA. 526+01-526+09 RT.

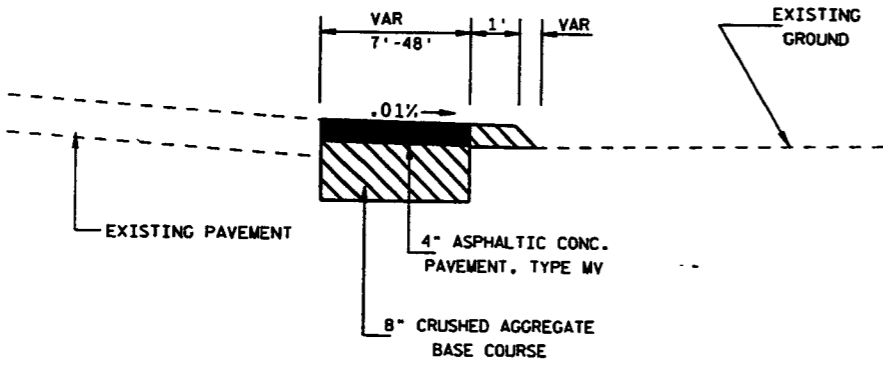


BLOCK AND GRAVEL MANHOLE & INLET SEDIMENT FILTER

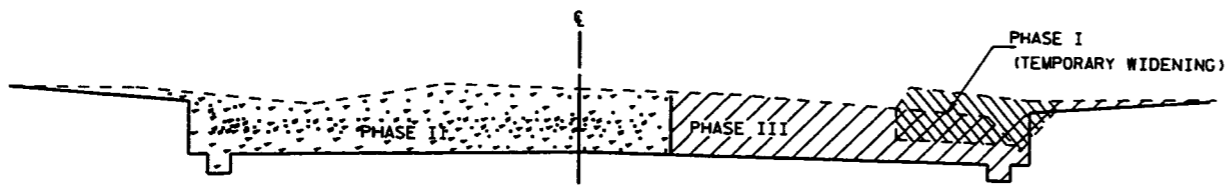
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**DETAIL FOR TEMPORARY WIDENING
(PHASE 1 : TRAFFIC CONTROL)**
64 TH STREET TO 61 ST STREET
58 TH STREET TO 52 TH STREET



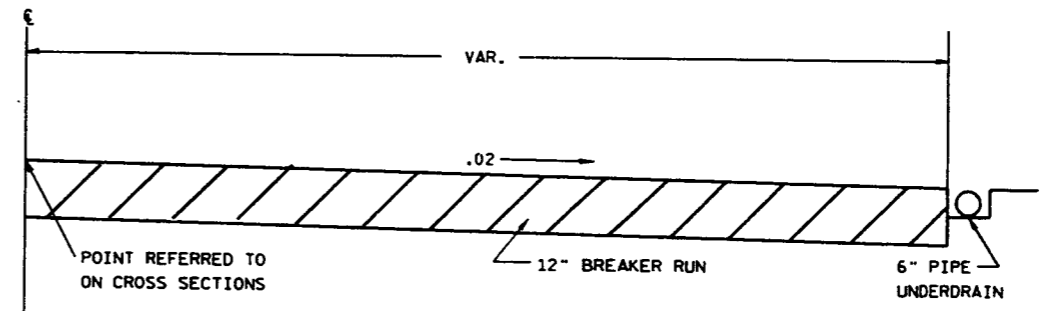
**DETAIL FOR TEMPORARY WIDENING
(PHASE 1 : TRAFFIC CONTROL)**
56th STREET



**DETAIL FOR TYPICAL CUTS/FILLS
IN EACH TRAFFIC CONTROL PHASE**

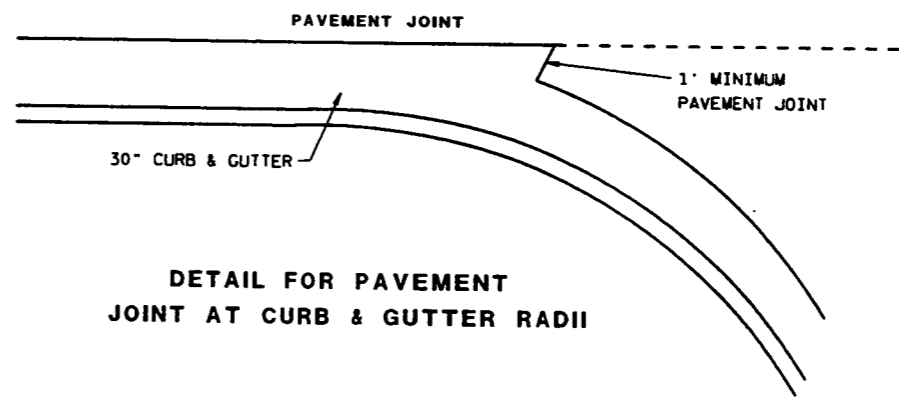
GENERAL LEGEND

- CONCRETE PAVEMENT (DOWELED)
- CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2
- CRUSHED AGGREGATE BASE COURSE
- TOPSOIL, FERTILIZER & SOO TO CONSTRUCTION LIMITS
- ASPHALTIC CONCRETE PAVEMENT, TYPE MV



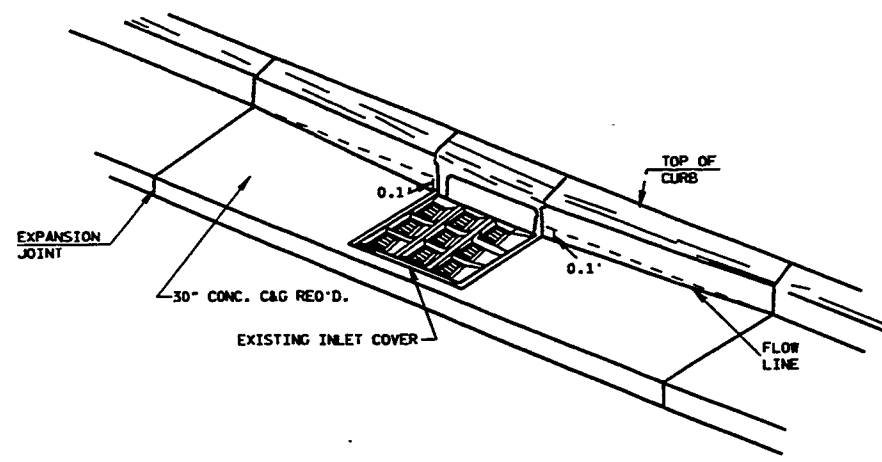
**TYPICAL SUBGRADE STRENGTHENING
DETAIL**

LOCATIONS TO BE DETERMINED
BY ENGINEER

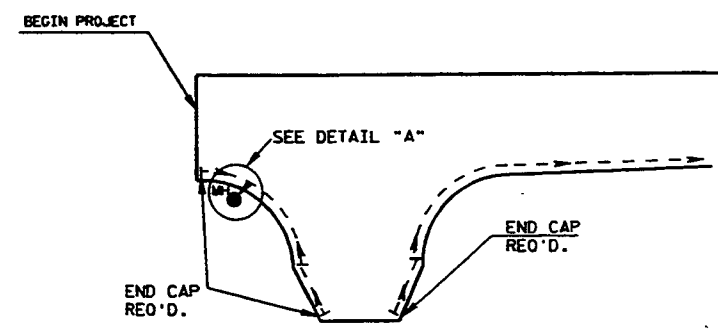


**DETAIL FOR PAVEMENT
JOINT AT CURB & GUTTER RADII**

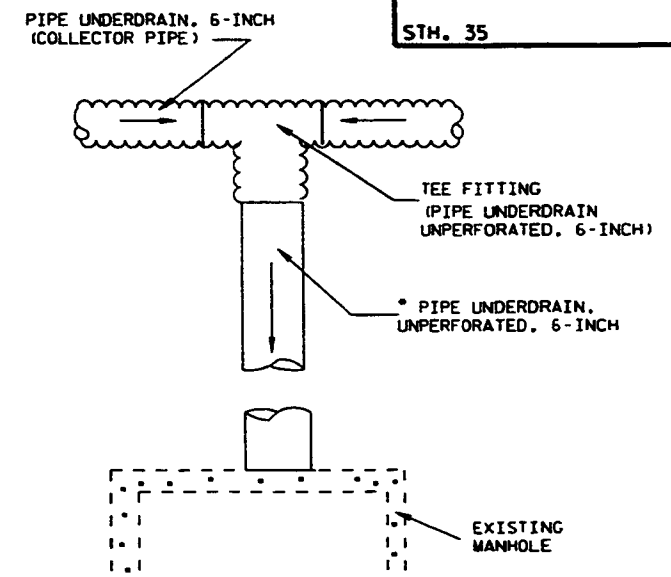
LEVELS ON - 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63



DETAIL FOR DEPRESSION OF INLET GRATE

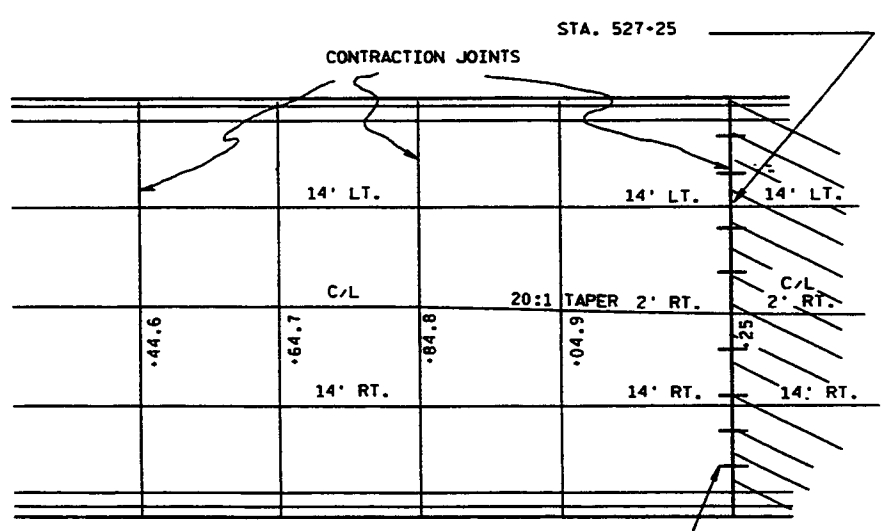


**DETAIL FOR EDGEDRAIN
64th. ST. EAST**

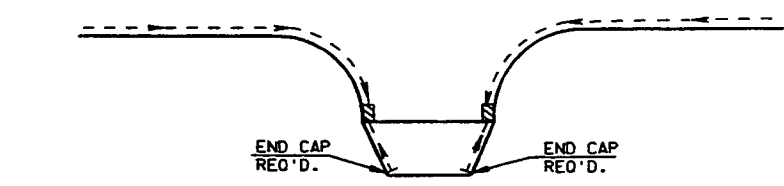


DETAIL "A"

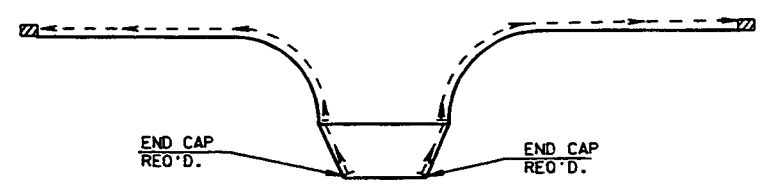
UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:
 POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS.
 ASTM D 2665, SCHEDULE 40 PVC.
 TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS.
 ASTM D 3034, SDR 23.5 PVC SEWER PIPE.



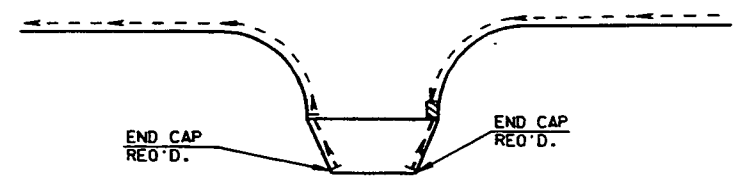
DETAIL FOR CENTERLINE JOINT TAPER AT END OF PROJECT



DETAIL FOR EDGEDRAIN
 63rd. ST. WEST & EAST 59th. ST. WEST
 62nd. ST. EAST 58th. ST. WEST
 61st. ST. EAST 56th. ST. EAST
 60th. ST. WEST & EAST 54th. ST. WEST & EAST
 64th. ST. WEST 57th. ST. WEST
 55th. ST. EAST & WEST

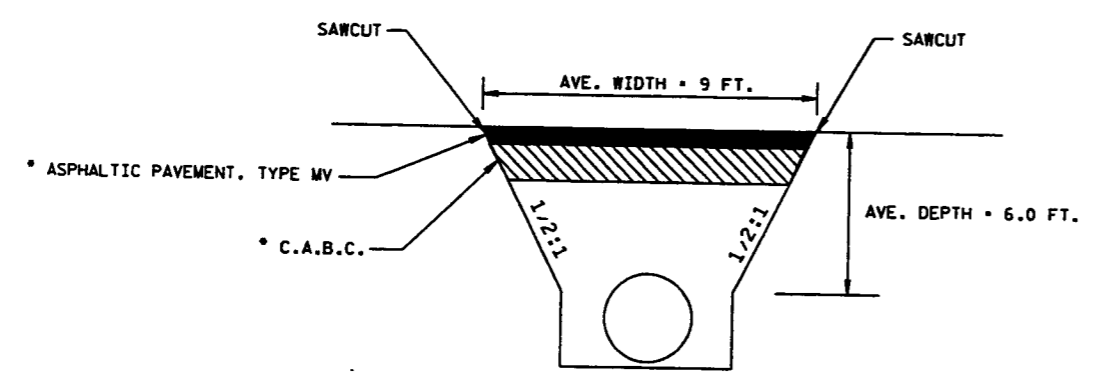


DETAIL FOR EDGEDRAIN
 61st. ST. WEST
 59th. ST. EAST
 58th. ST. EAST
 57th. ST. EAST
 56th. ST. WEST



**DETAIL FOR EDGEDRAIN
53rd. ST. WEST & EAST**

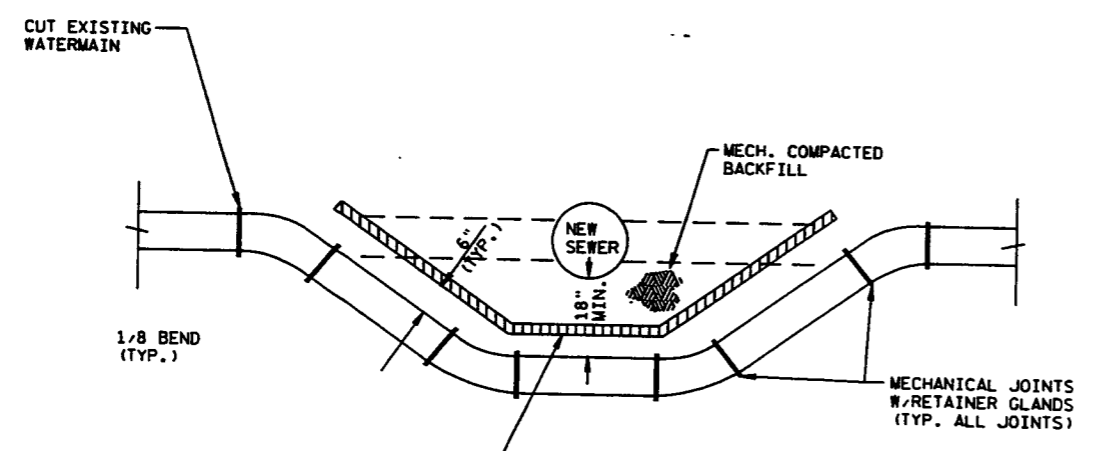
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DETAIL FOR REPLACEMENT OF 18" S.S. PIPE WITH 21" R.C.P.S.S.

STA. 479+21 RT.

* MATCH THICKNESSES WITH EXISTING PAVEMENT STRUCTURE (ESTIMATED AT 4" ASPH. SURFACE & 6" C.A.B.C.)



LOWER WATERMAIN DETAIL

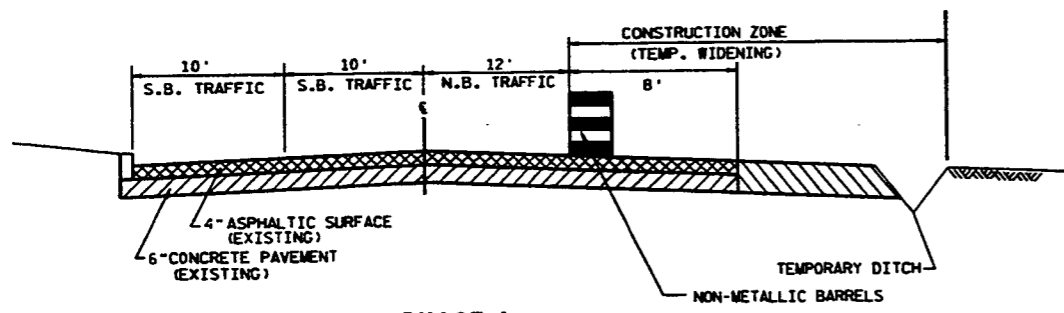
501+54, 13' LT. - 6" MAIN
 511+80, 20' LT. - 12" MAIN
 516+40, 8' LT. - 6" MAIN

RUNOFF COEFFICIENT TABLE

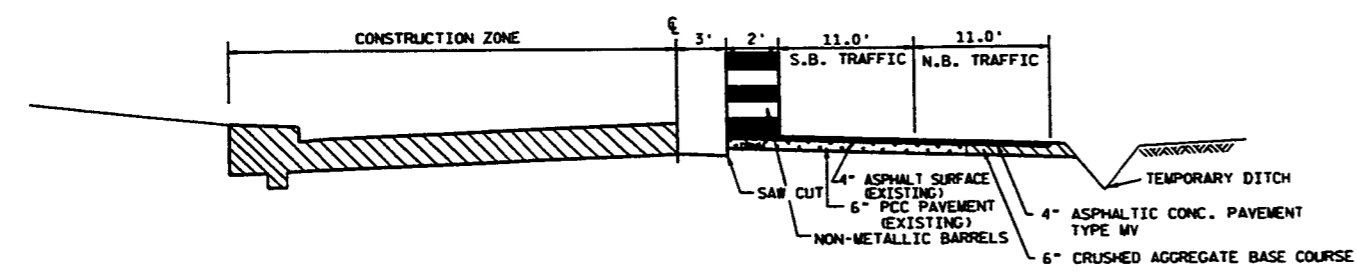
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA • 12.4 ACRES
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES • 12.4 ACRES

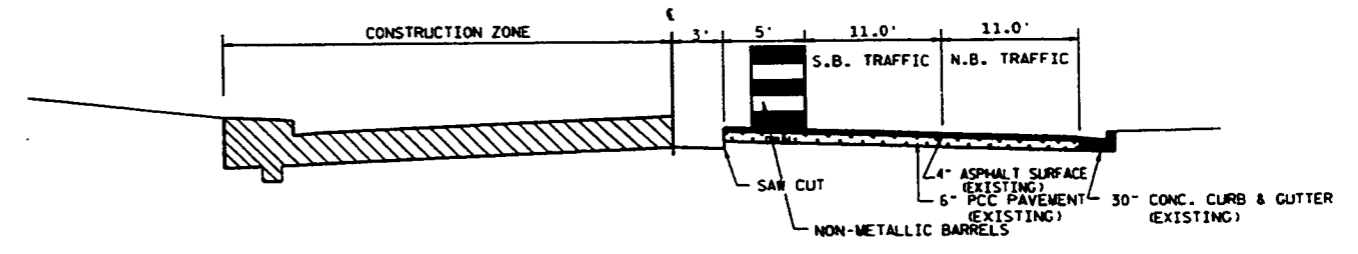
LEVELS ON - 1.2, 3.4, 5.6, 7.8, 9.0, 11.12, 13.14, 15.16, 17.18, 19.20, 21.22, 23.24, 25.26, 27.28, 29.30, 31.32, 33.34, 35.36, 37.38, 39.40, 41.42, 43.44, 45.46, 47.48, 49.50, 51.52, 53.54, 55.56, 57.58, 59.60, 61.62, 63



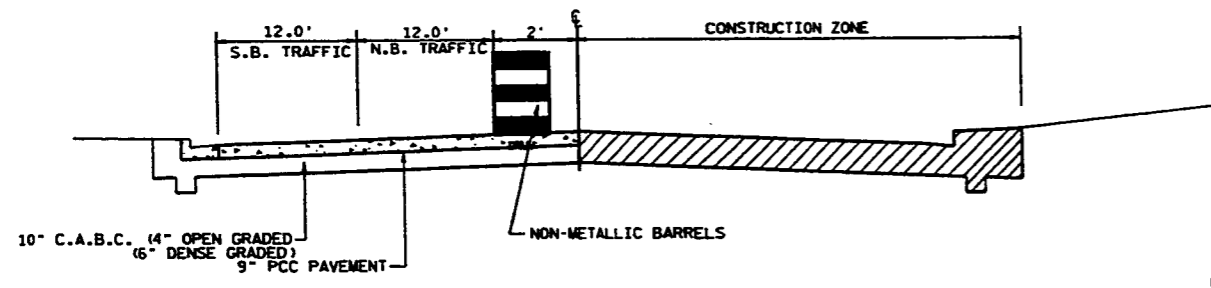
PHASE I
STA. 474+50 TO STA. 484+50
STA. 487+00 TO STA. 527+25



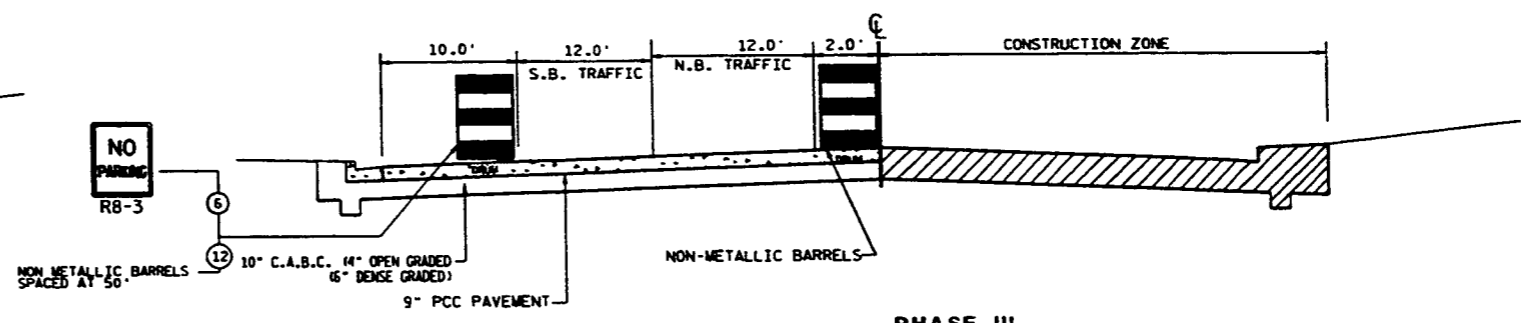
PHASE II
STA. 474+50 TO STA. 488+00
(64th St. TO 61st St.)
STA. 501+50 TO STA. 527+25
(58th St. TO 52nd St.)



PHASE II
STA. 488+00 TO STA. 501+50
(61st St. TO 58th St.)

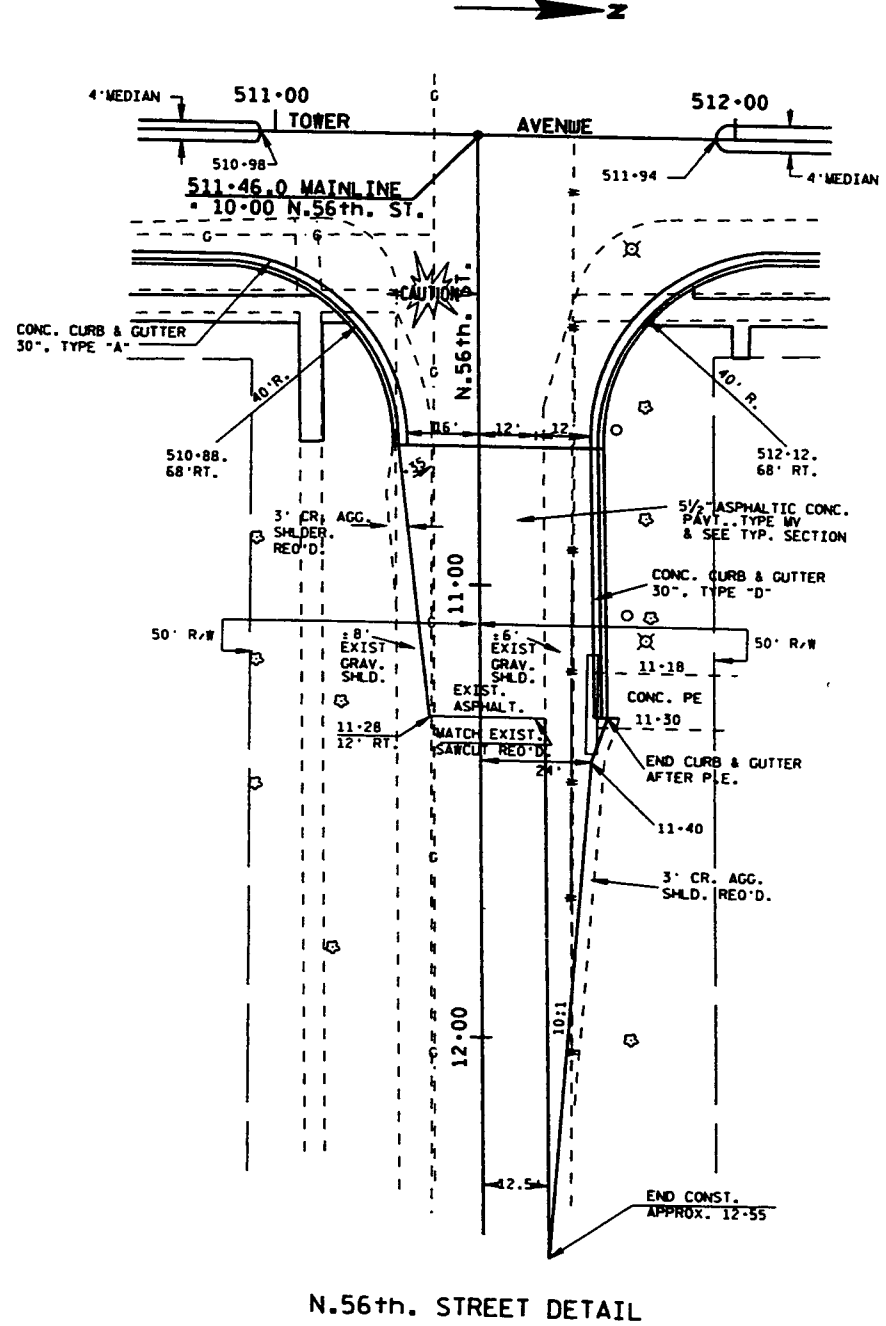
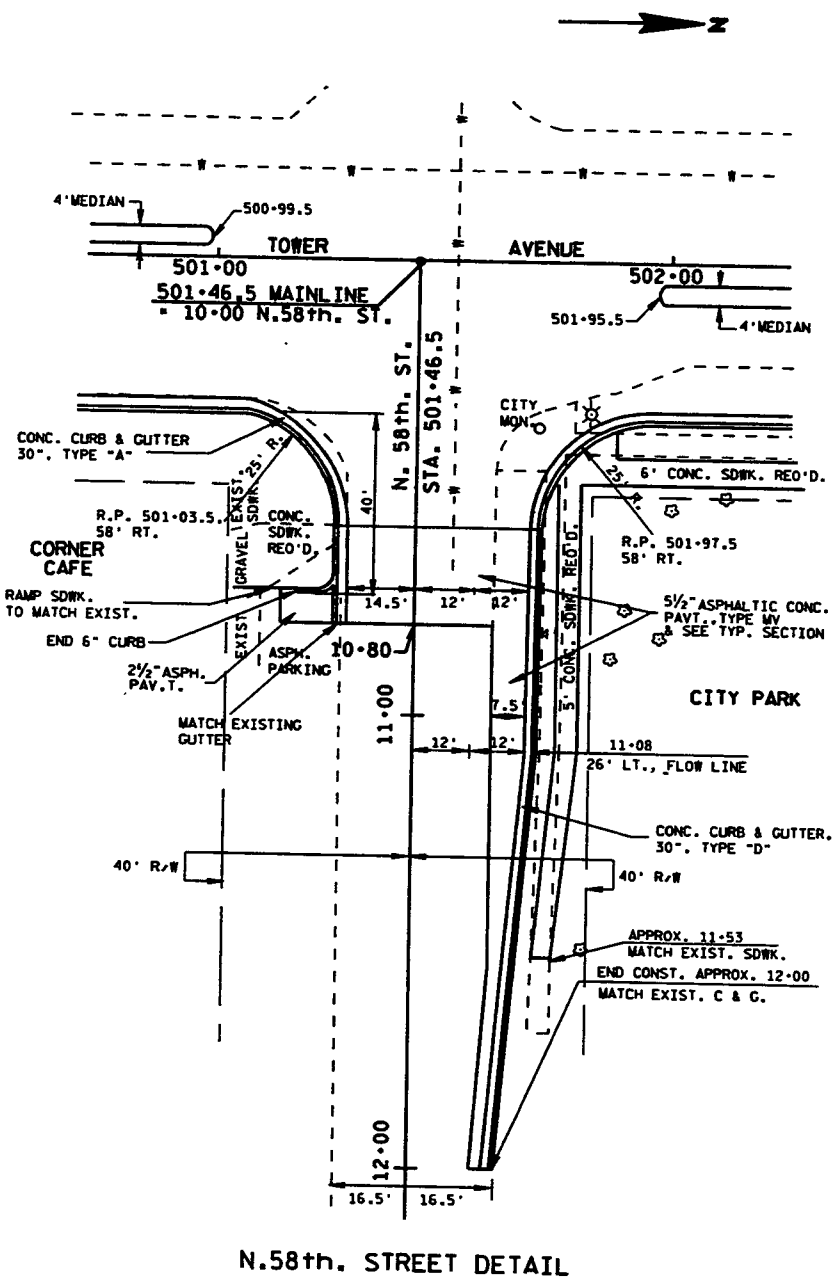


PHASE III
STA. 474+50 TO STA. 488+00
(64th St. TO 61st St.)
STA. 501+50 TO STA. 527+25
(58th St. TO 52nd St.)



PHASE III
STA. 488+00 TO STA. 501+50
(61st St. TO 58th St.)

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

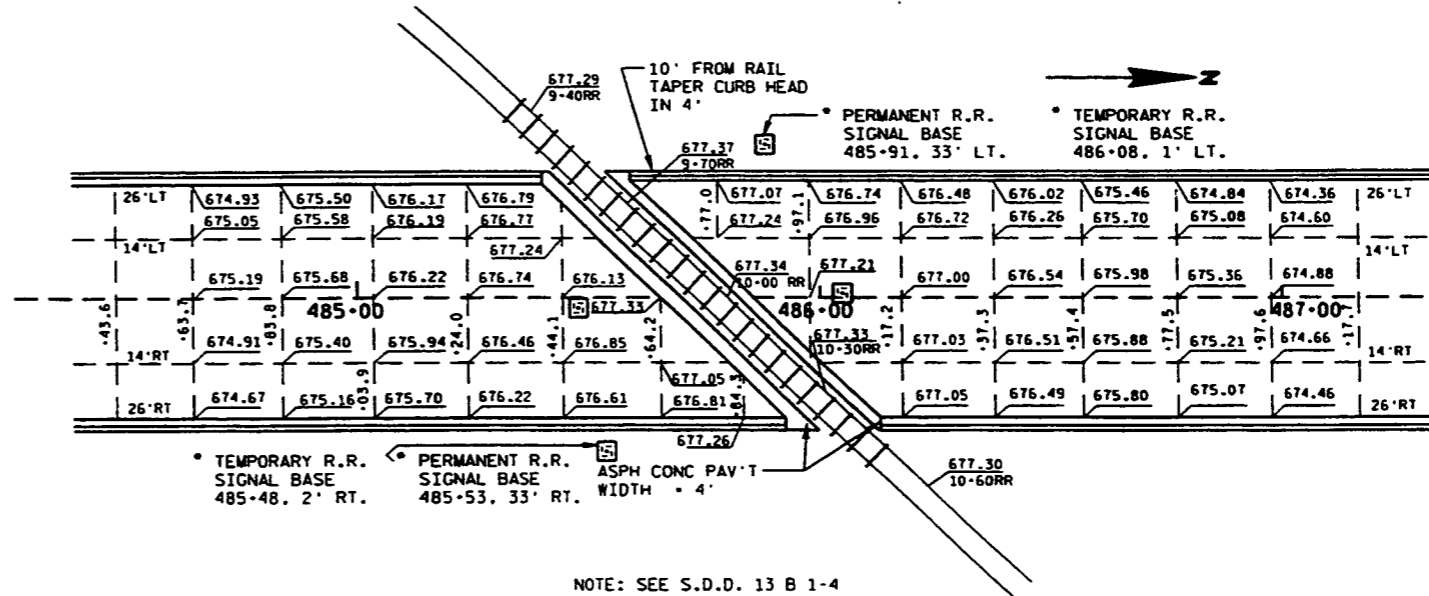
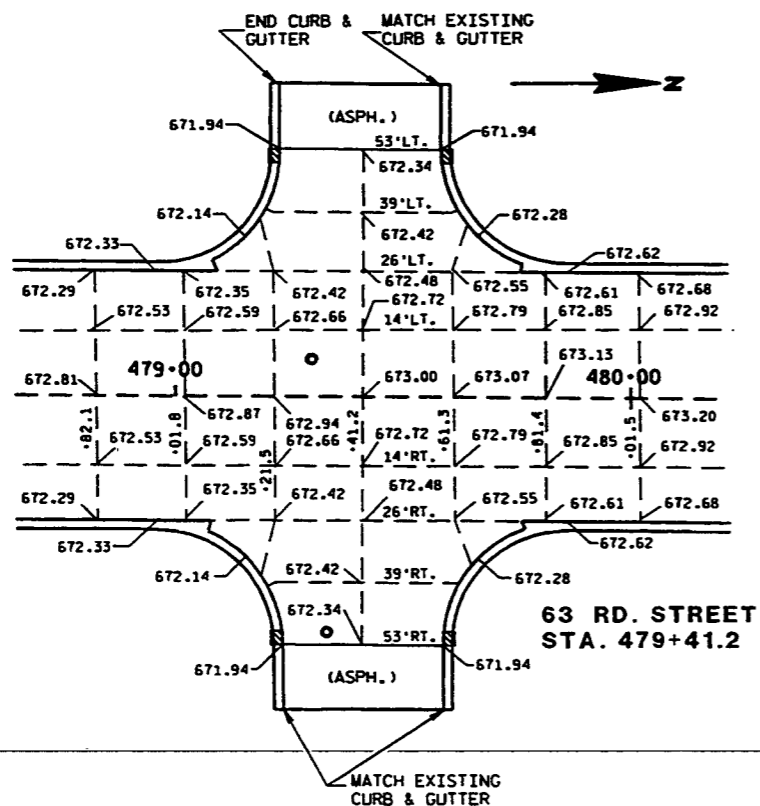
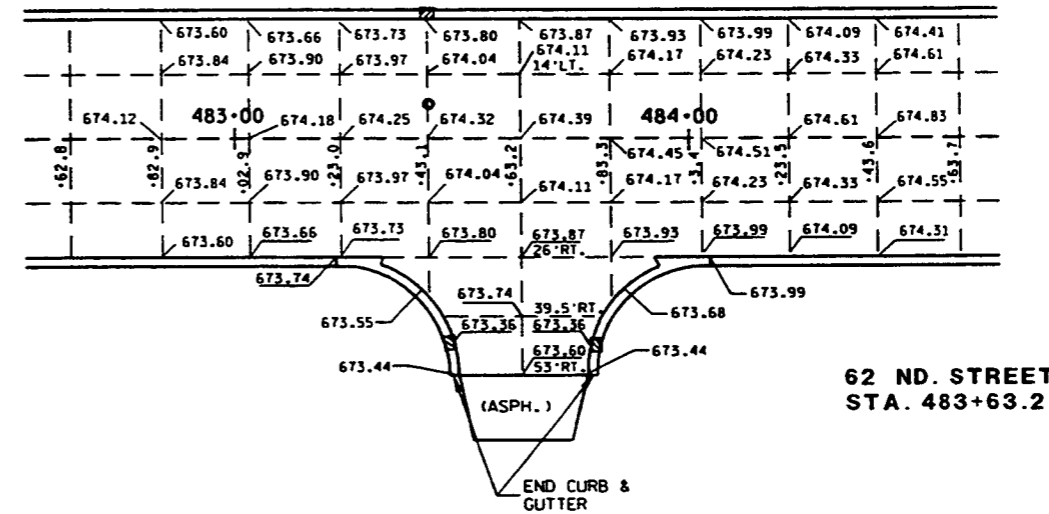
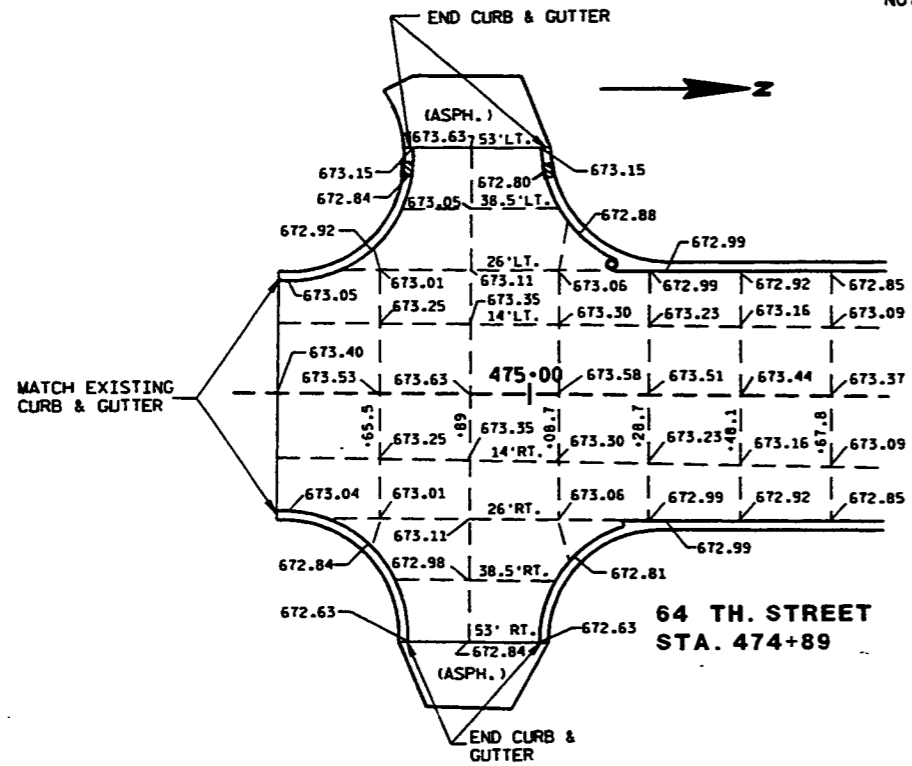


LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

JOINT LAYOUTS AND RADIUS & SIDE STREET ELEVATIONS

NOTE: RADIUS AND EDGE OF PAYEMENT ELEVATIONS SHOWN ARE TO FLAGLINE.

STATE PROJECT NUMBER	8010-13-71	SHEET NO.	2.10
TOWER AVENUE, CITY OF SUPERIOR			
DETAILS			
INTERSECTIONS, JOINTS, ELEVATIONS			
S.T.H. 35	DOUGLAS COUNTY		



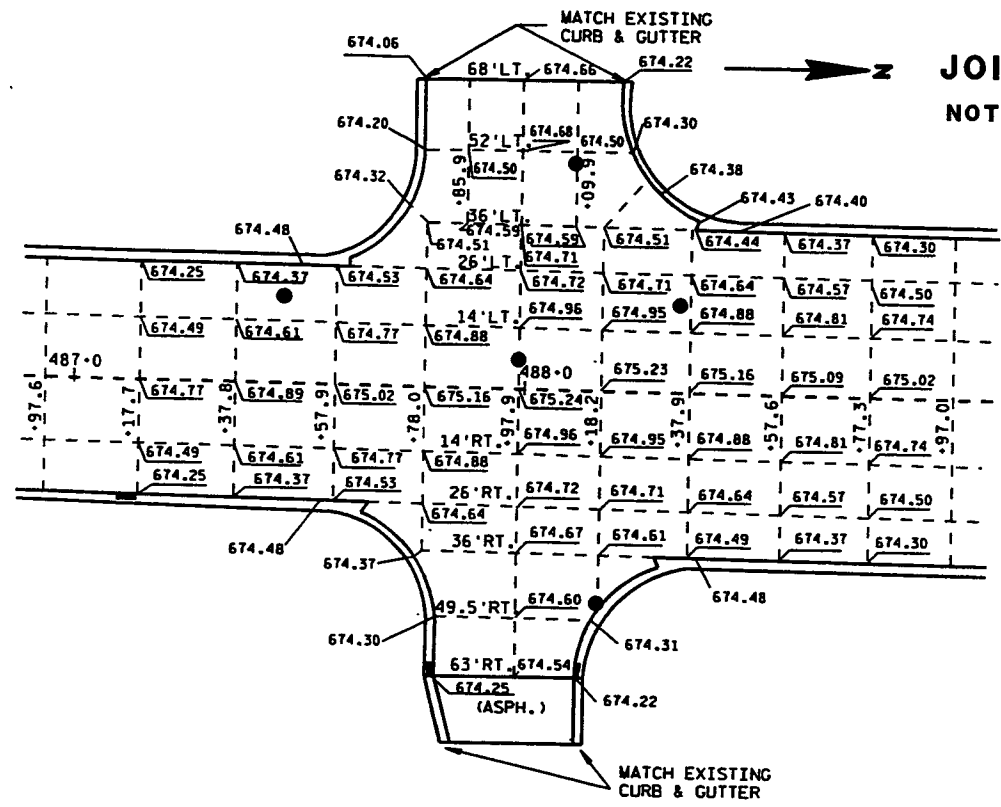
* SIGNAL BASES TO BE INSTALLED BY OTHERS.

NOTE: SEE S.D.D. 13 B 1-4

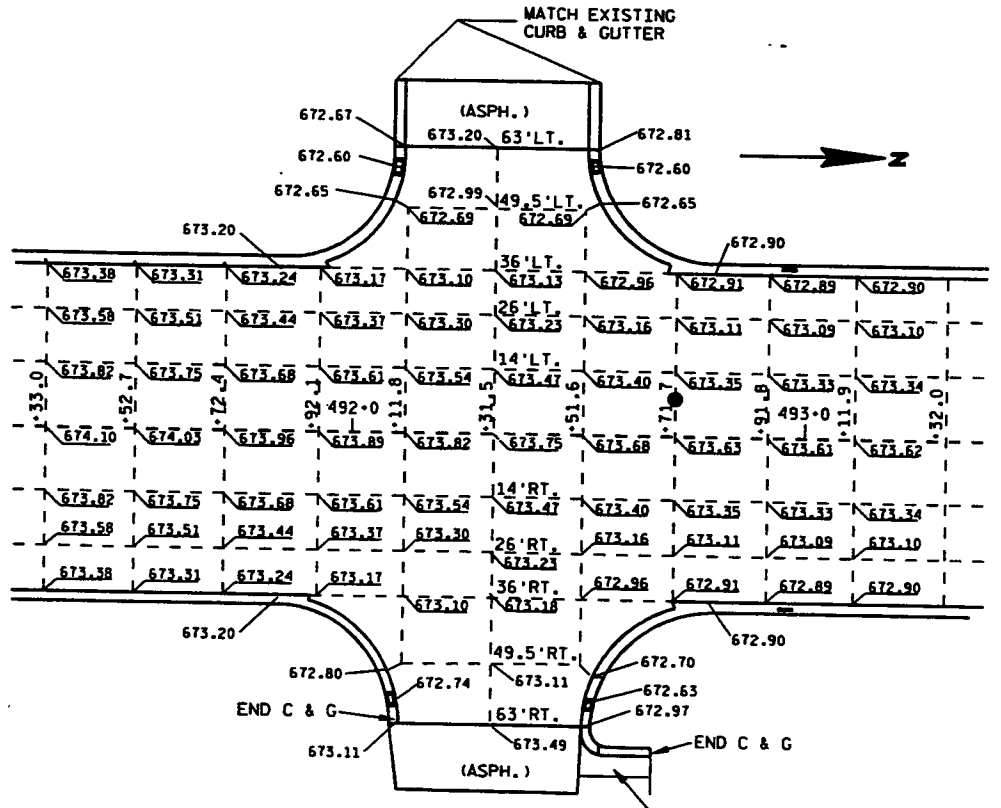
LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

JOINT LAYOUTS AND RADIUS & SIDE STREET ELEVATIONS

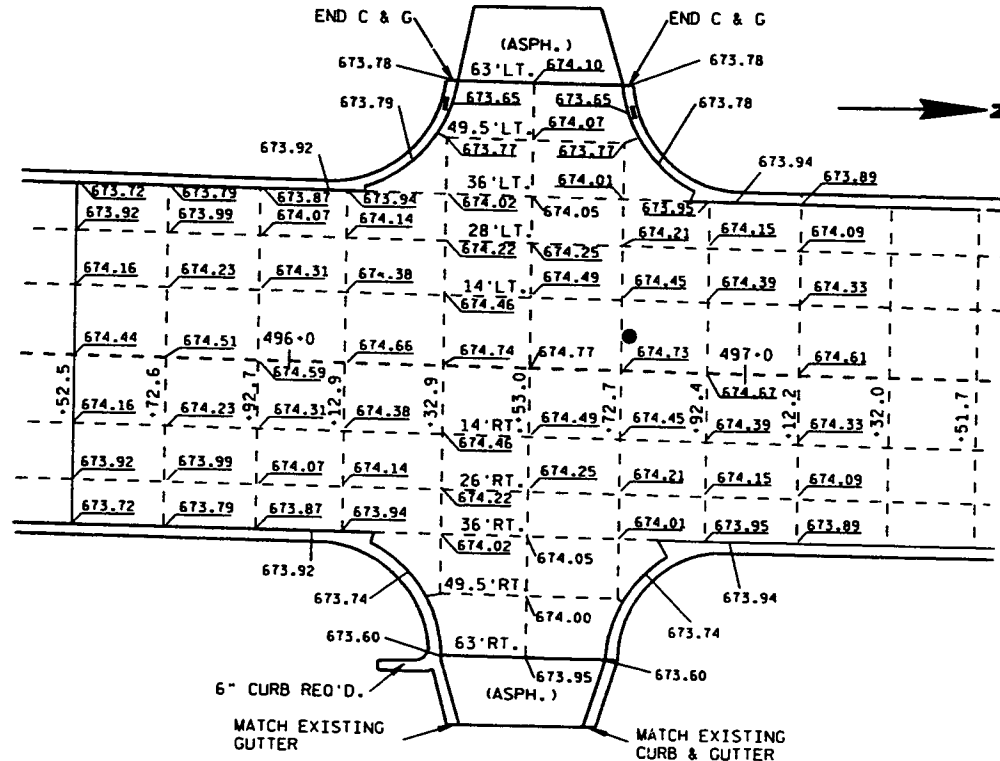
NOTE: RADIUS AND EDGE OF PAVEMENT ELEVATIONS SHOWN ARE TO FLAGLINE.



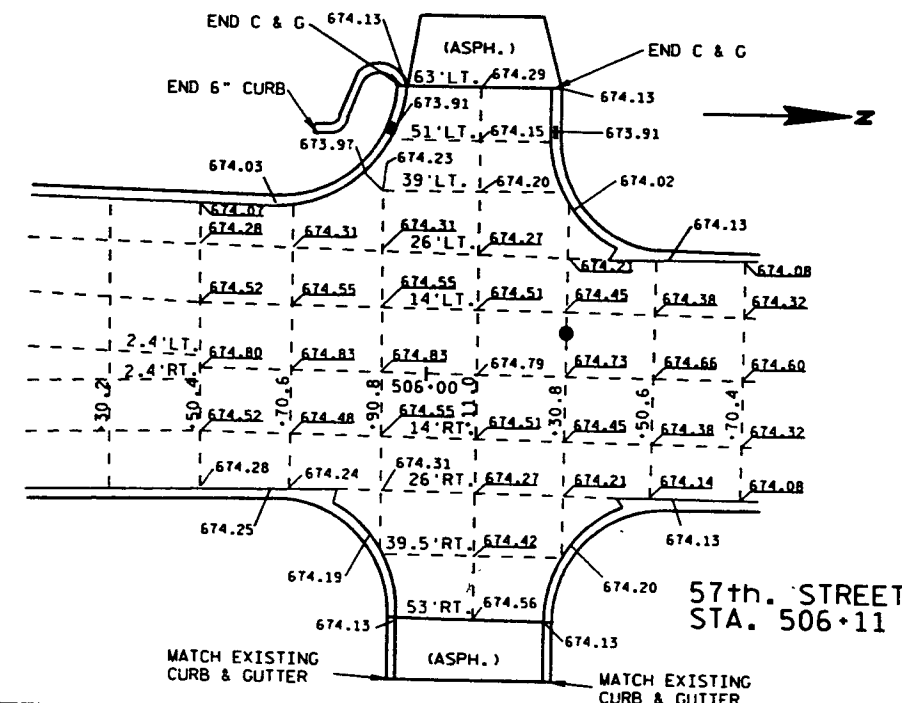
61st. STREET/STH 105
STA. 487+97.9



60th. STREET
STA. 492+31.5



59th. STREET
STA. 496+53

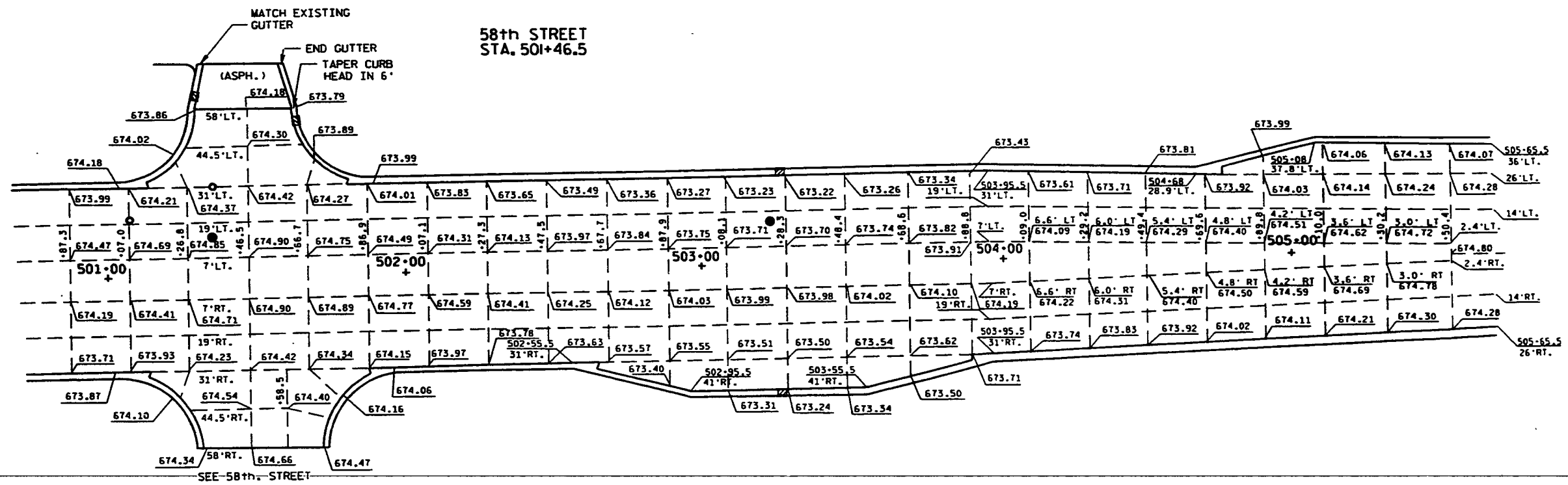
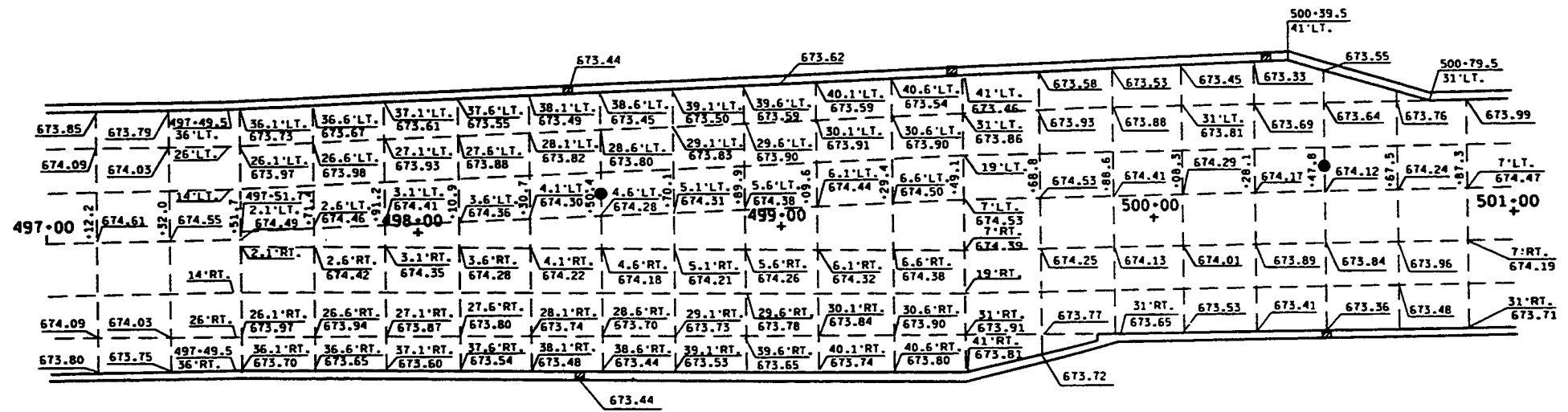


57th. STREET
STA. 506+11

LEVELS ON 1.2, 3.4, 5.6, 7.8, 9.0, 11.12, 13.14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

JOINT LAYOUTS AND RADIUS & SIDE STREET ELEVATIONS

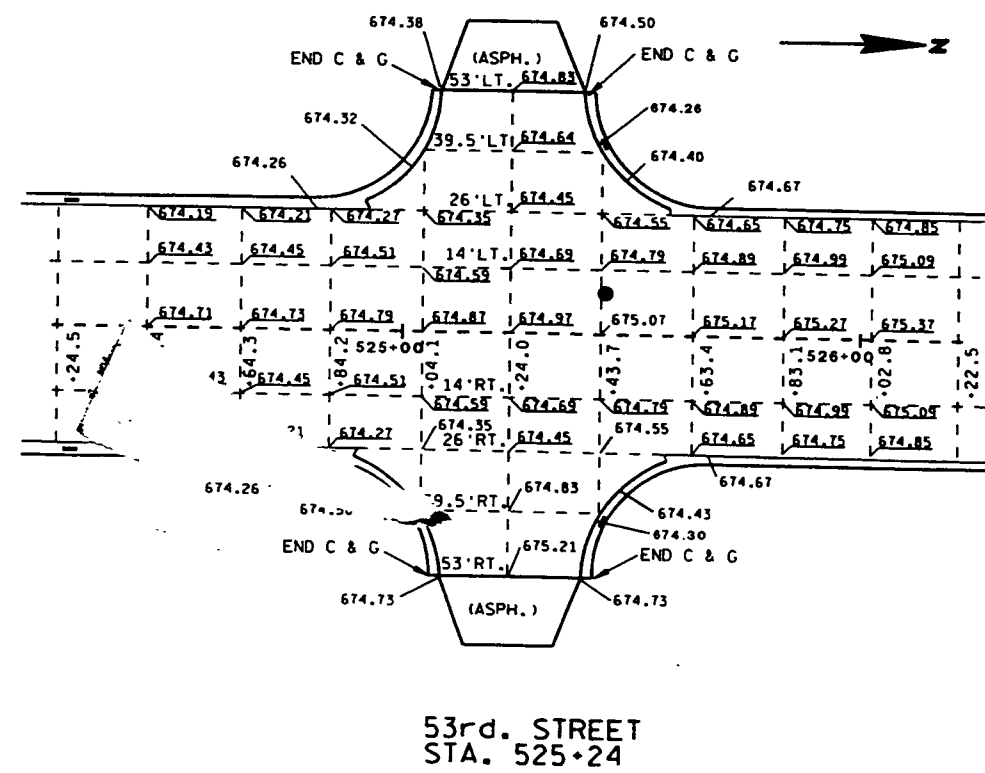
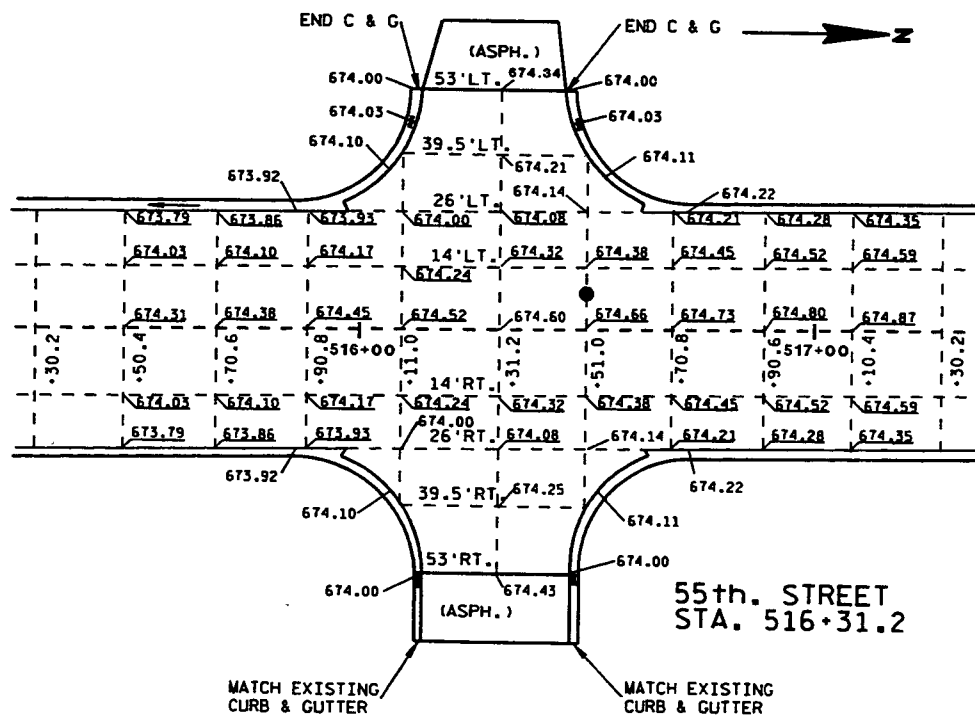
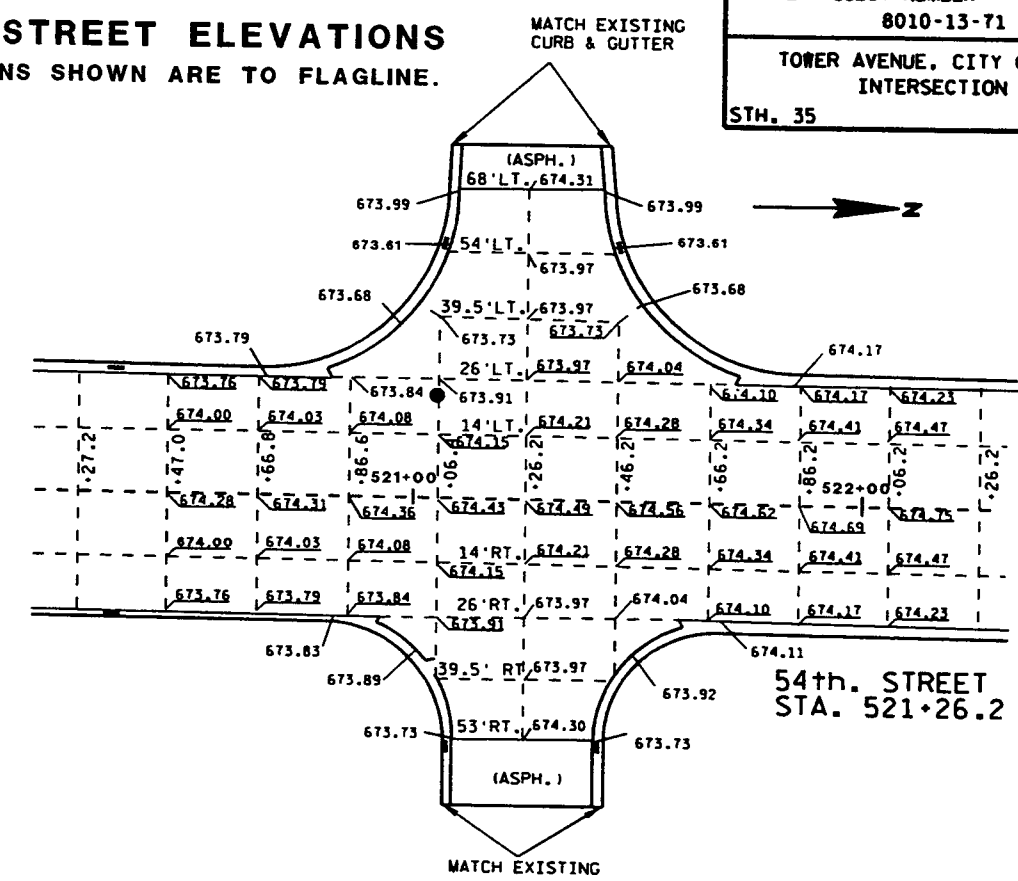
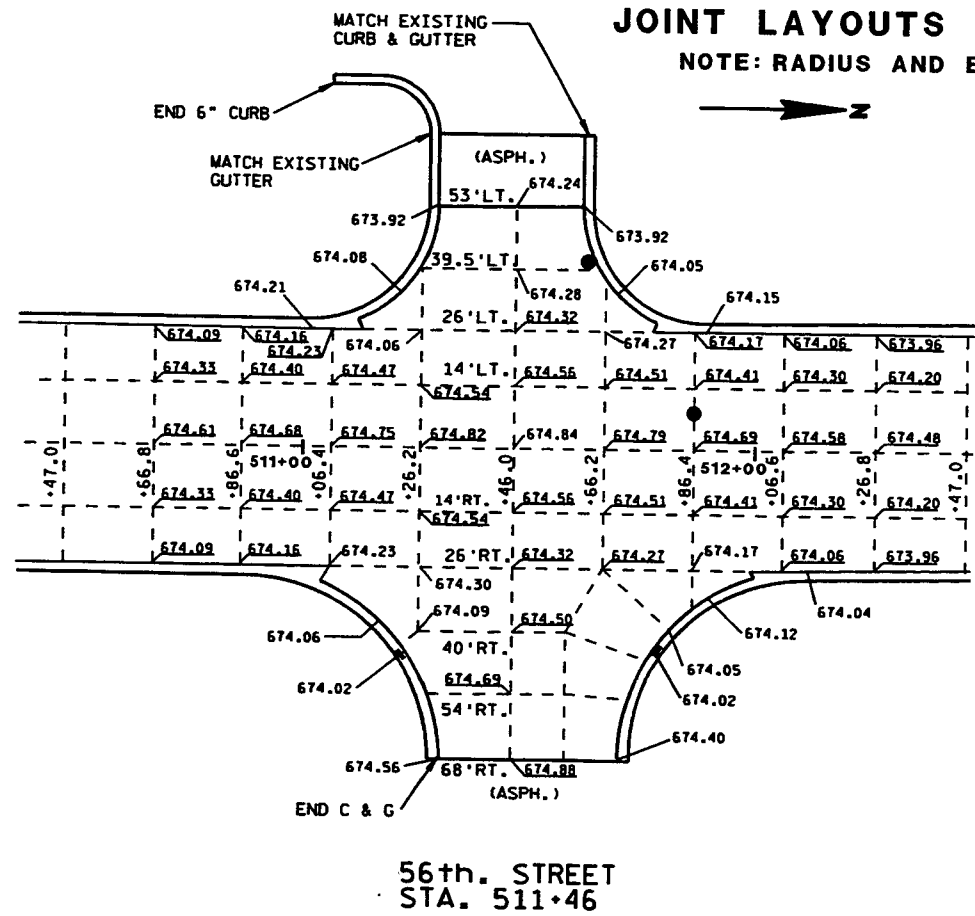
NOTE: RADIUS AND EDGE OF PAVEMENT ELEVATIONS SHOWN ARE TO FLAGLINE.



LEVELS ON - 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63

JOINT LAYOUTS AND RADIUS & SIDE STREET ELEVATIONS

NOTE: RADIUS AND EDGE OF PAVEMENT ELEVATIONS SHOWN ARE TO FLAGLINE.



LEVELS ON 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

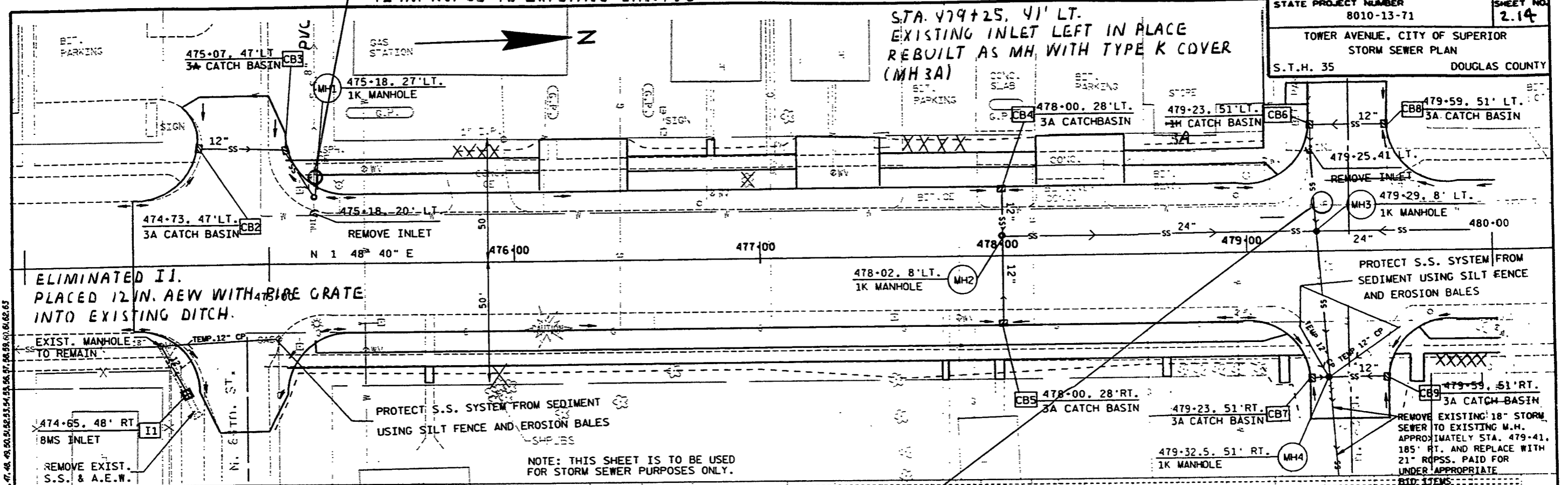
INSTALLED DRIVEWAY-TYPE COVER
ON CB3

CB6 (TYPE 3A) IS FREE STANDING;
DOES NOT LIE ON TOP OF EXISTING 18 IN. SS

CONCRETE COLLAR CONNECTION
12 IN. RCPSS TO EXISTING 8 IN. PVC

STA. 479+25, 41' LT.
EXISTING INLET LEFT IN PLACE
REBUILT AS MH WITH TYPE K COVER
(MH 3A)

STATE PROJECT NUMBER 8010-13-71	SHEET NO. 2.14
TOWER AVENUE, CITY OF SUPERIOR STORM SEWER PLAN	
S.T.H. 35	DOUGLAS COUNTY



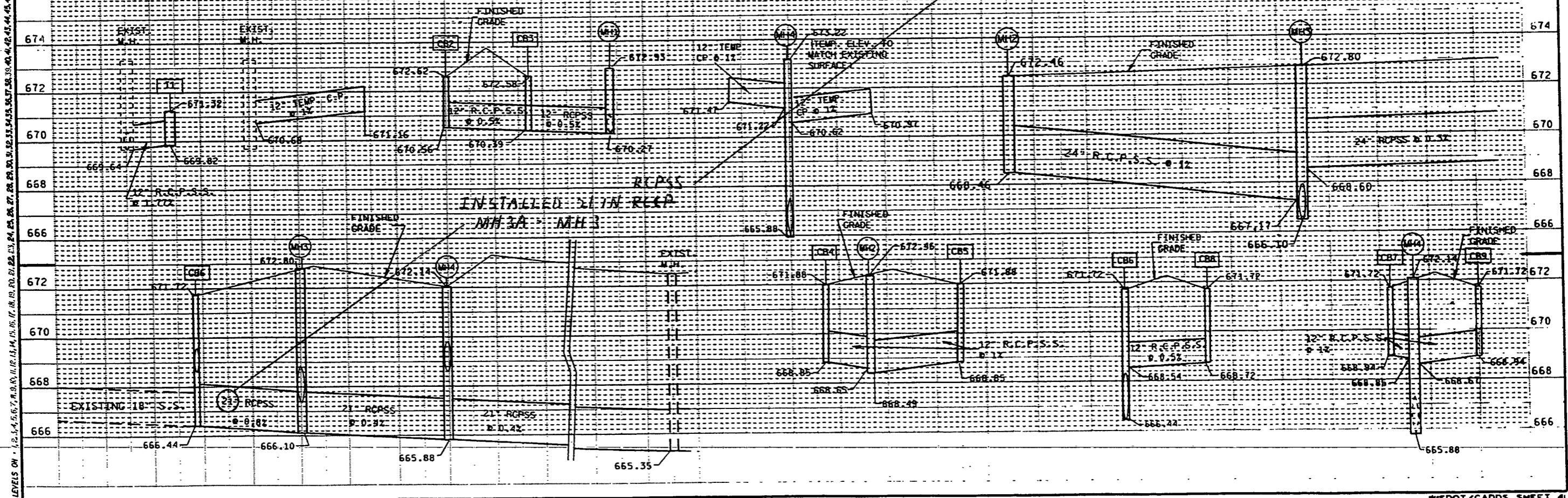
ELIMINATED I.I.
PLACED 12 IN. AEW WITH BIRE GRATE
INTO EXISTING DITCH.

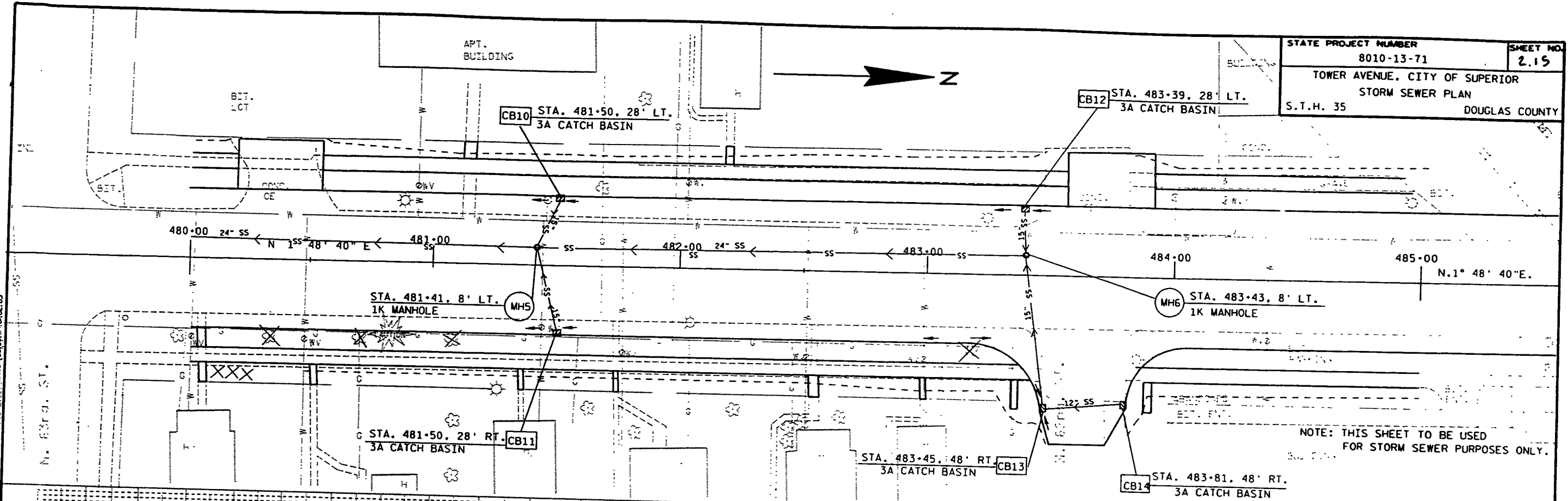
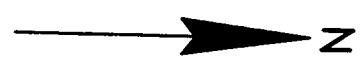
REMOVE EXIST.
S.S. & A.E.W.

PROTECT S.S. SYSTEM FROM SEDIMENT
USING SILT FENCE AND EROSION BALES

NOTE: THIS SHEET IS TO BE USED
FOR STORM SEWER PURPOSES ONLY.

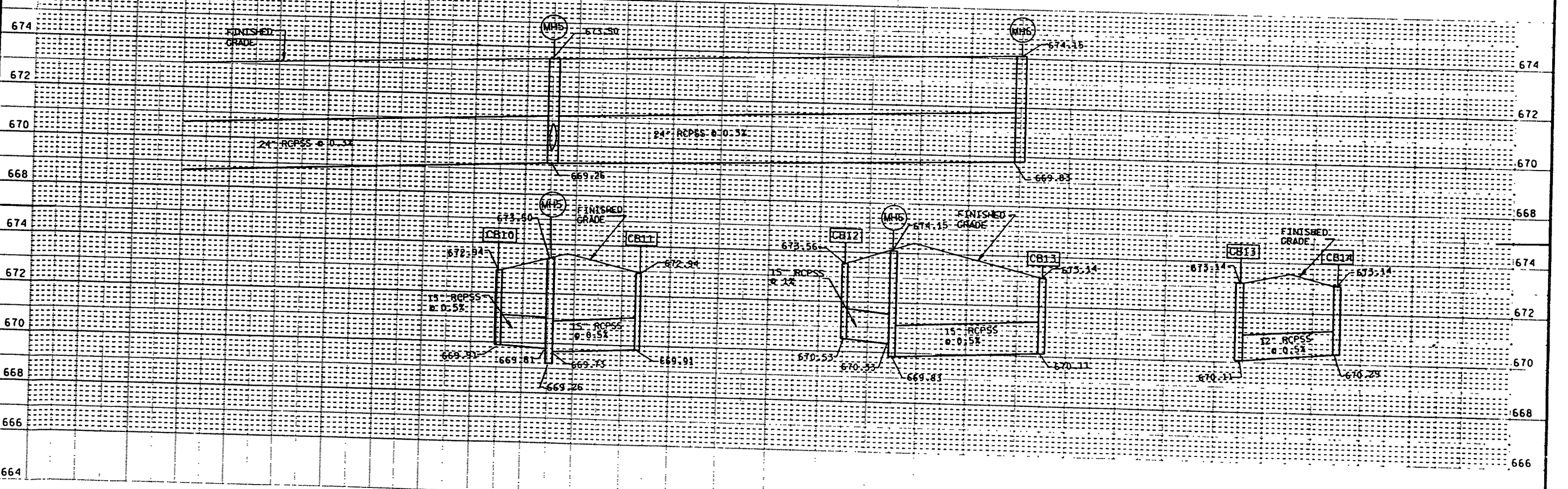
REMOVE EXISTING 18" STORM
SEWER TO EXISTING M.H.
APPROXIMATELY STA. 479+41.
185' RT. AND REPLACE WITH
21" RCPSS. PAID FOR
UNDER APPROPRIATE
BID ITEMS.

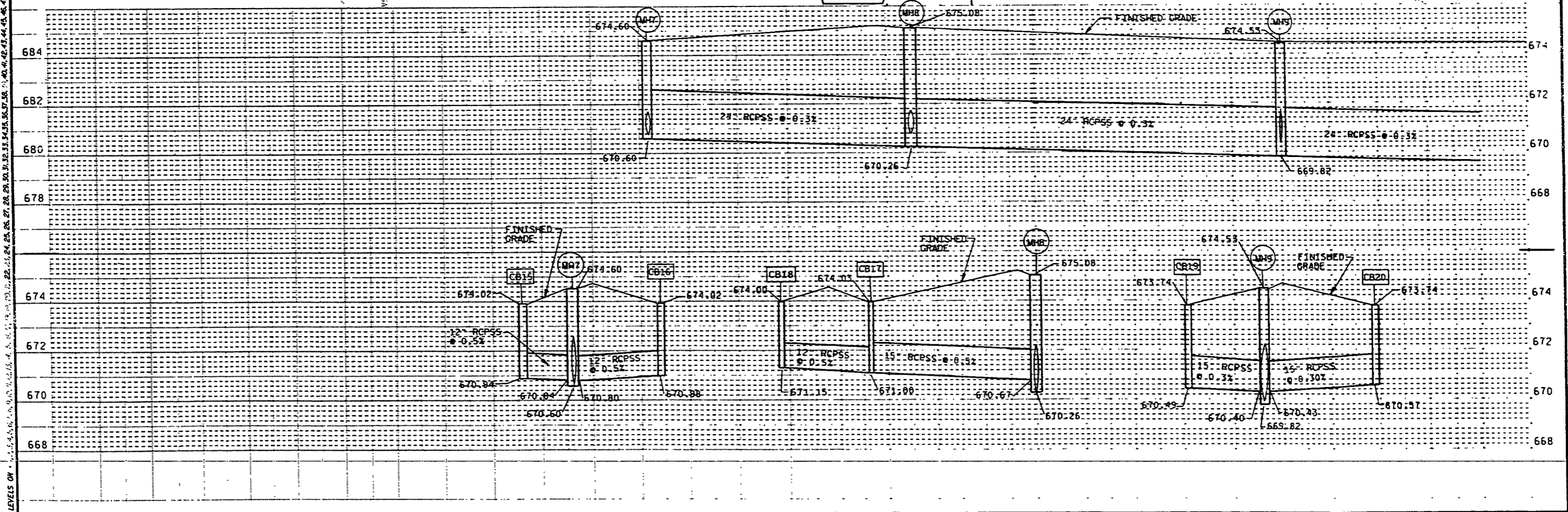
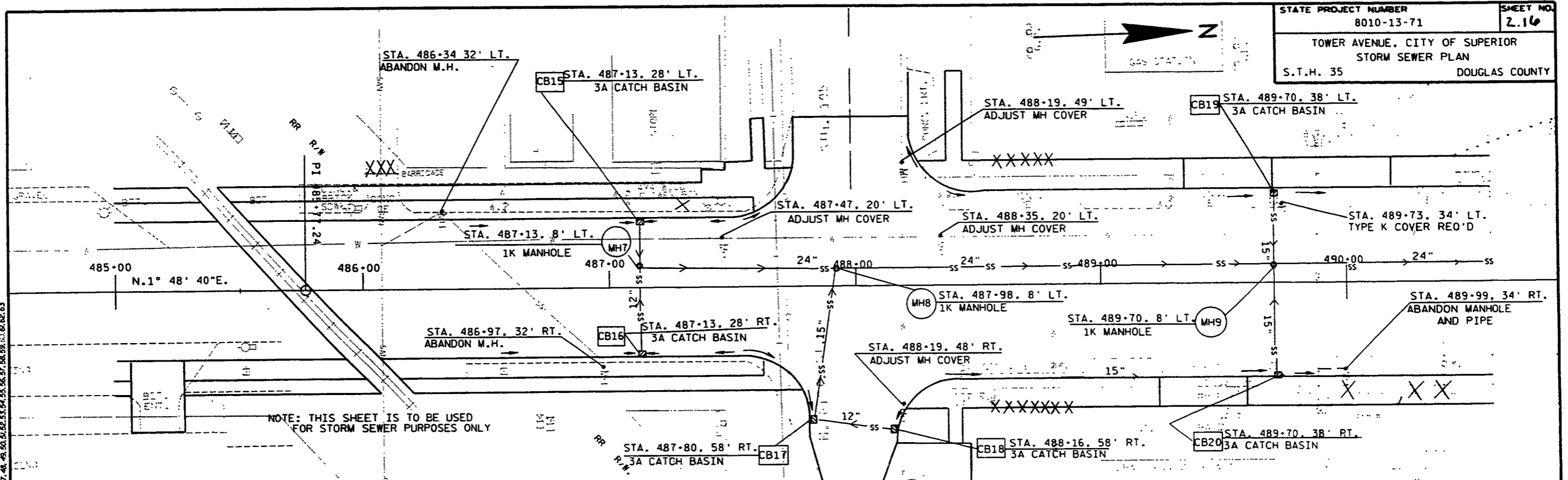




NOTE: THIS SHEET TO BE USED FOR STORM SEWER PURPOSES ONLY.

LEVELS ON 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

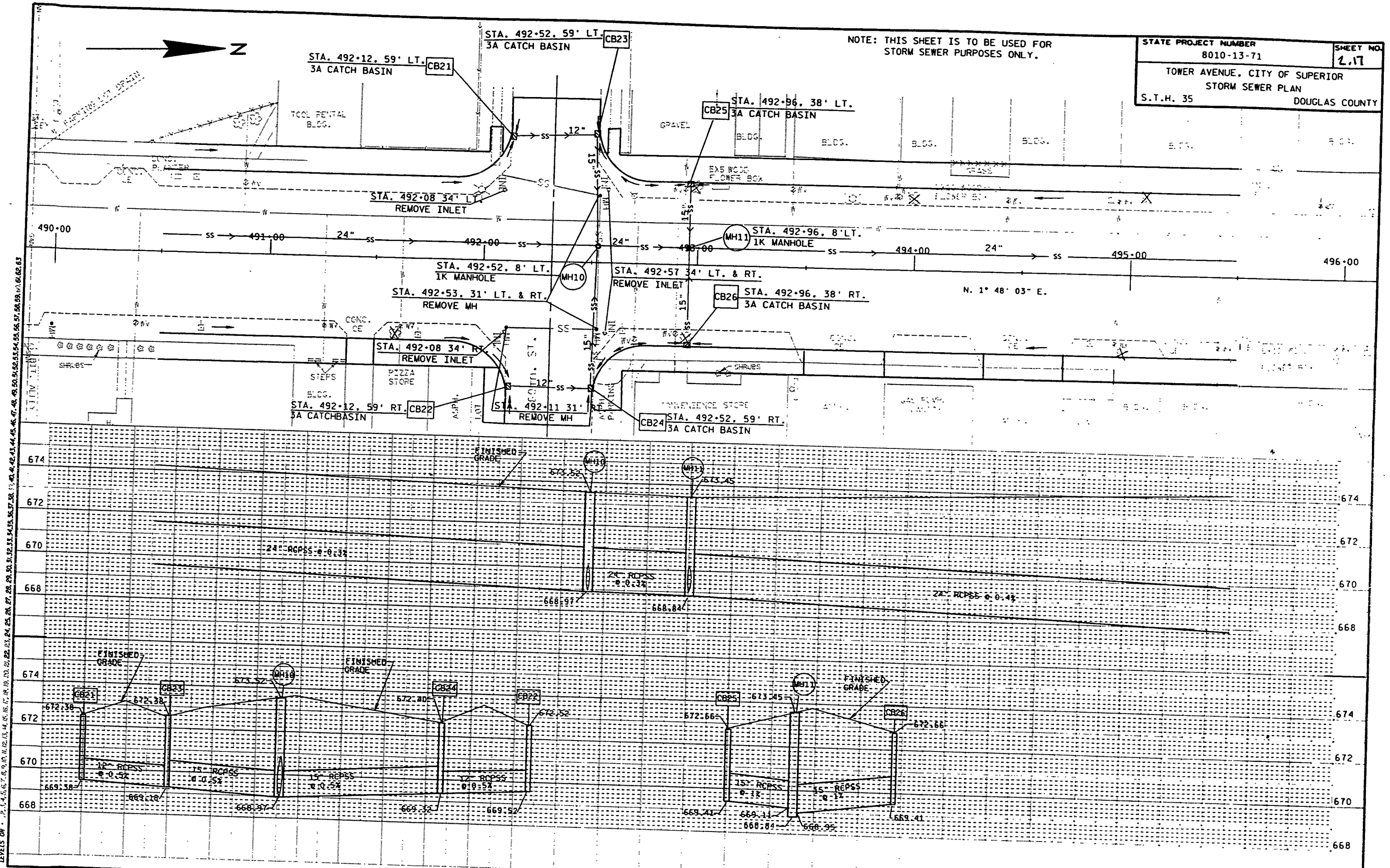




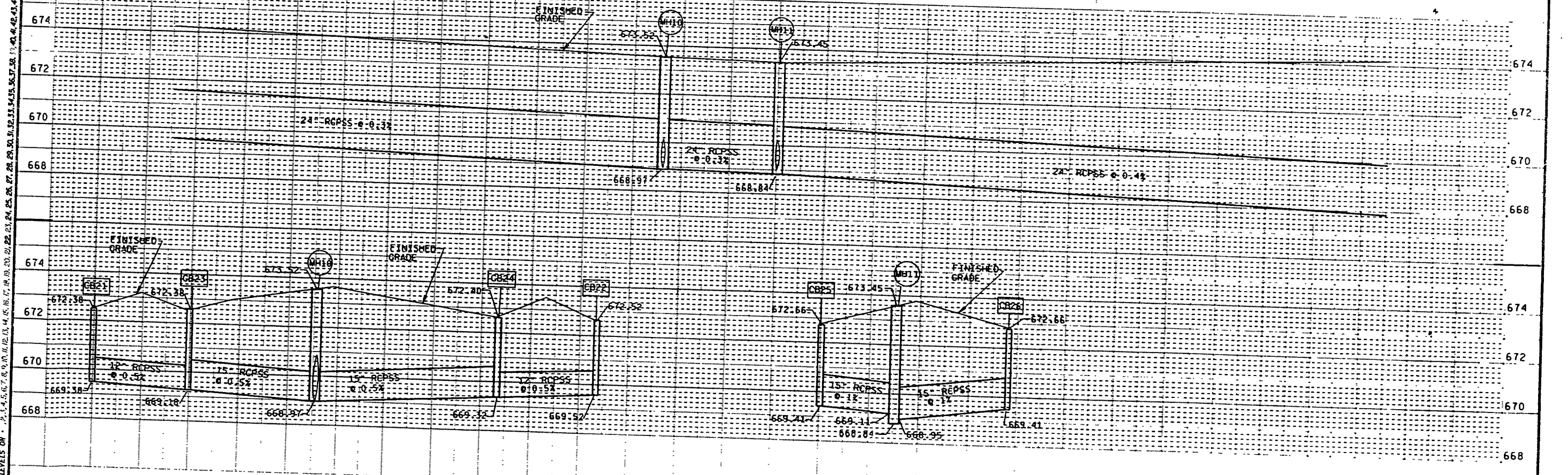


NOTE: THIS SHEET IS TO BE USED FOR STORM SEWER PURPOSES ONLY.

STATE PROJECT NUMBER 8010-13-71	SHEET NO. 2.17
TOWER AVENUE, CITY OF SUPERIOR STORM SEWER PLAN	
S.T.H. 35	DOUGLAS COUNTY

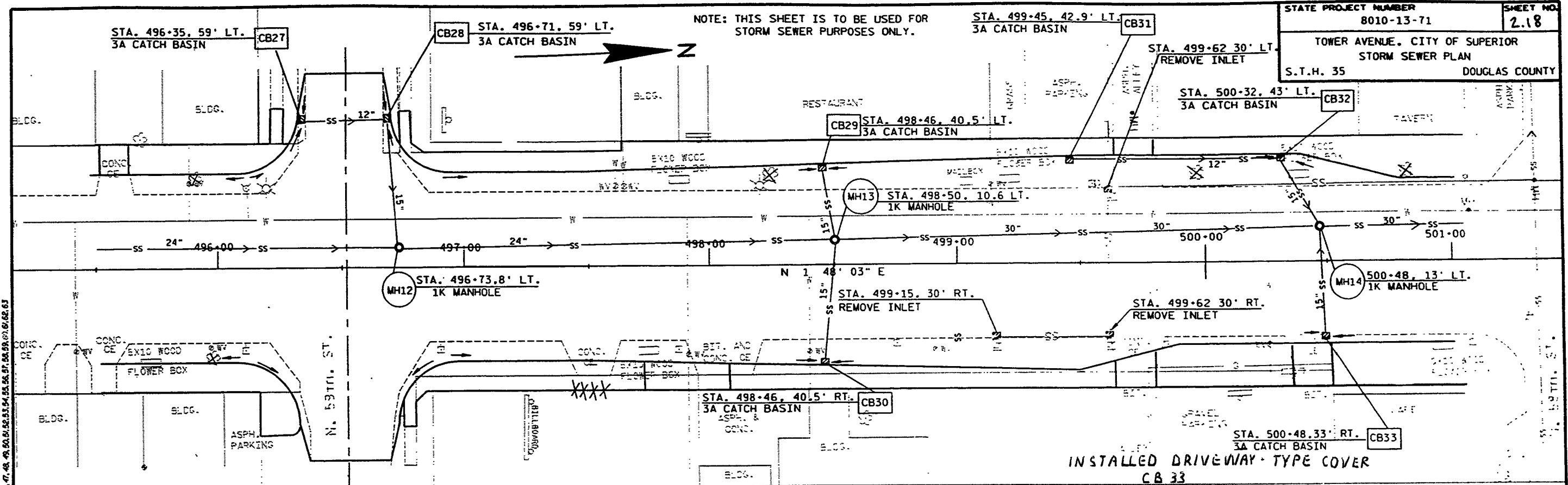


LEVELS ON: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



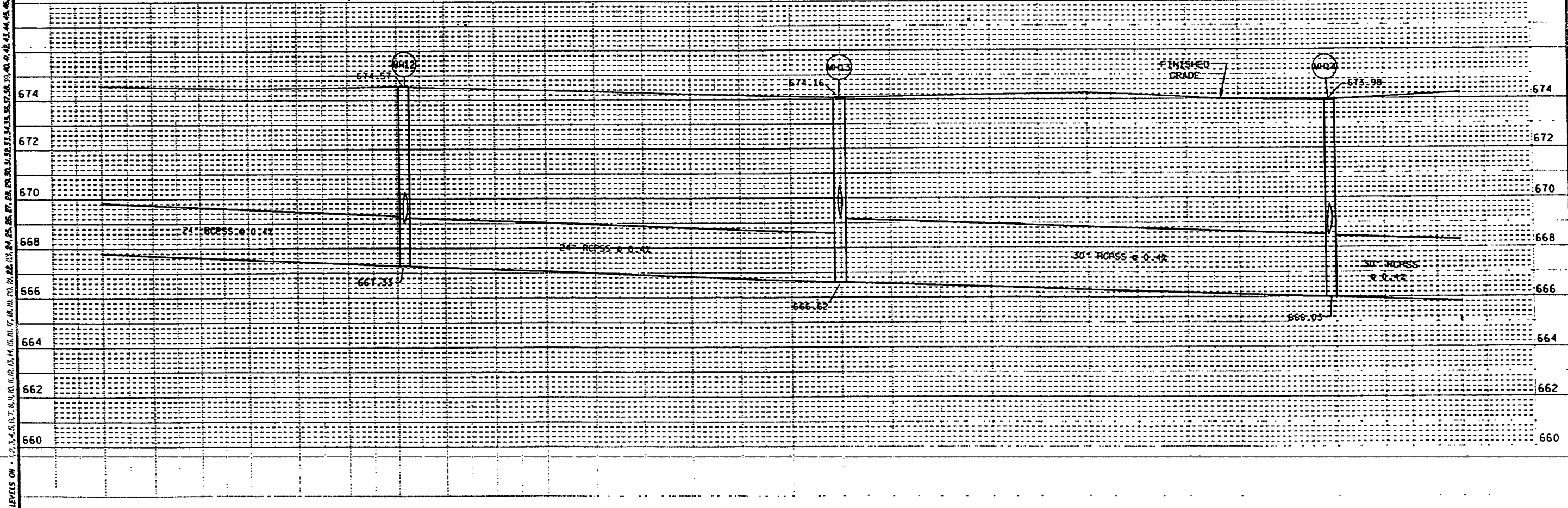
FILE NAME : DB 80101300 STORM4.DCN ORIGINATOR : DISTRICT 8 PLOT NAME : STORM4 PLOT SCALE : 20:1

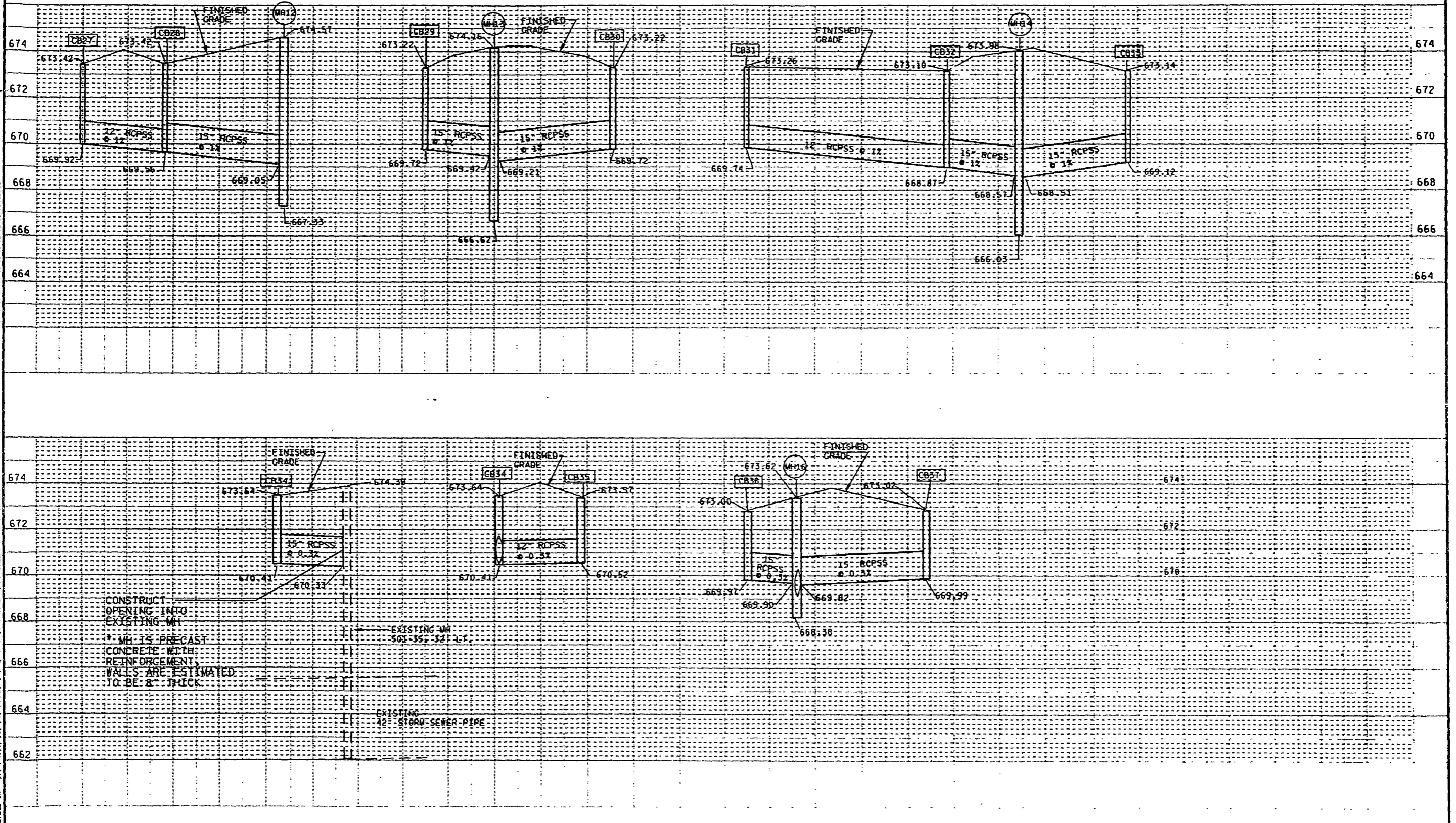
NOTE: THIS SHEET IS TO BE USED FOR STORM SEWER PURPOSES ONLY.



INSTALLED DRIVEWAY-TYPE COVER
 CB 33

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



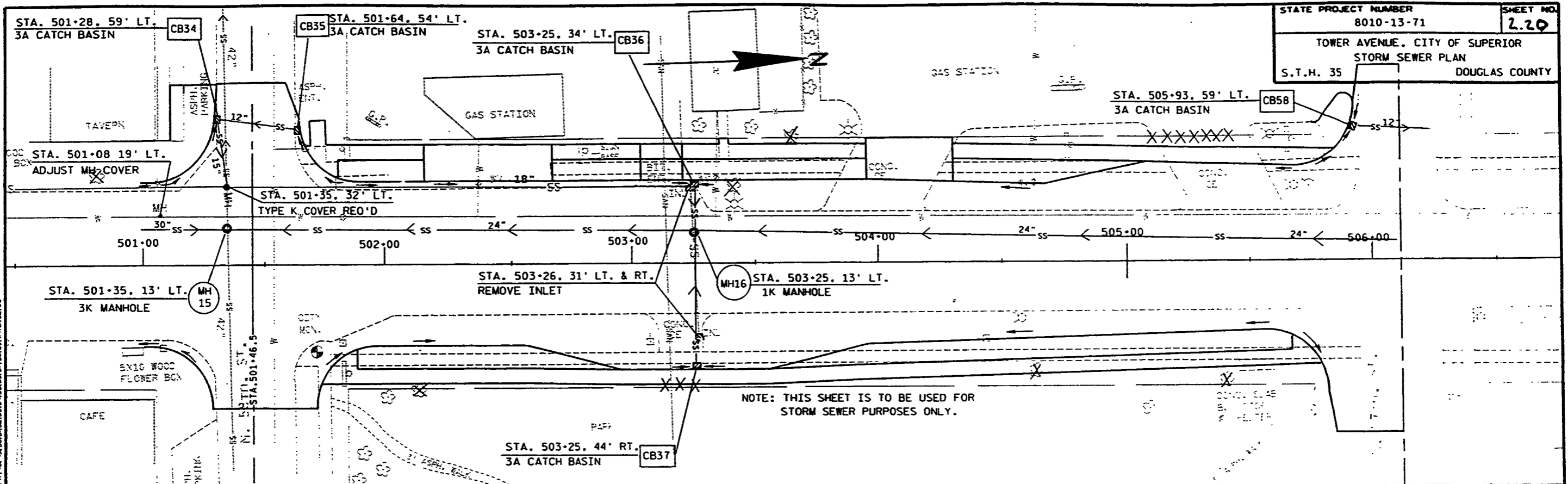


CONSTRUCT
OPENING INTO
EXISTING MH
* MH IS PRECAST
CONCRETE WITH
REINFORCEMENT
WALLS ARE ESTIMATED
TO BE 8" THICK

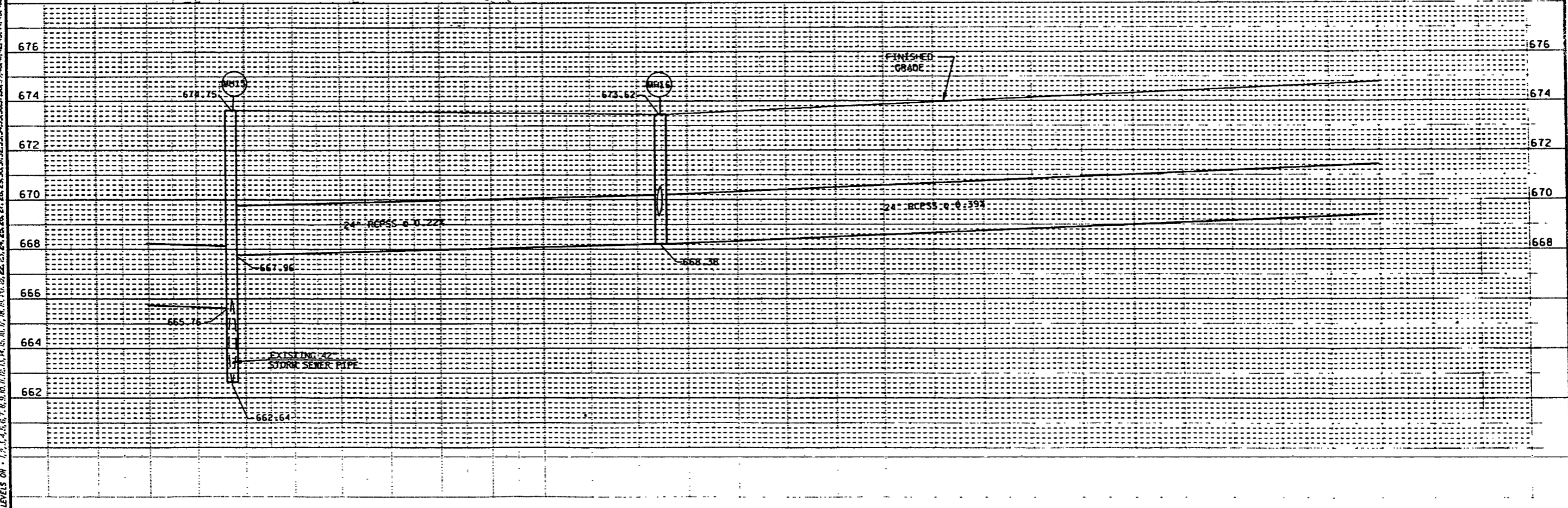
EXISTING MH
501-35' 32" LT.

EXISTING
12" STORM SEWER PIPE

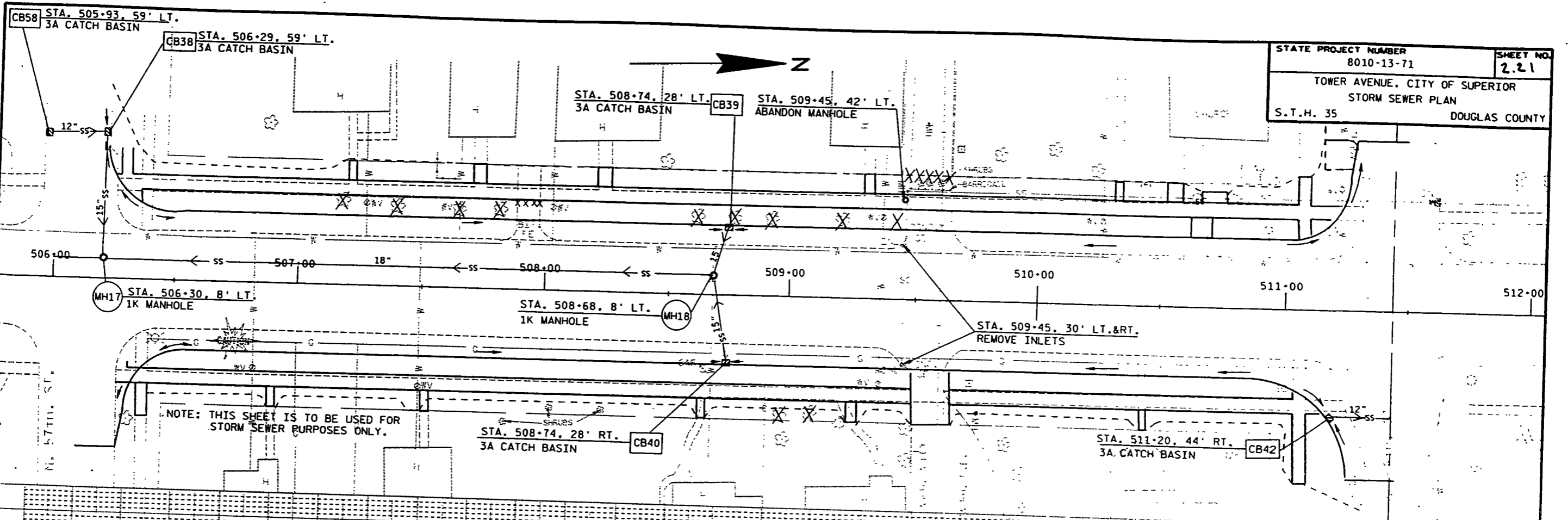
LEVELS ON: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



NOTE: THIS SHEET IS TO BE USED FOR STORM SEWER PURPOSES ONLY.

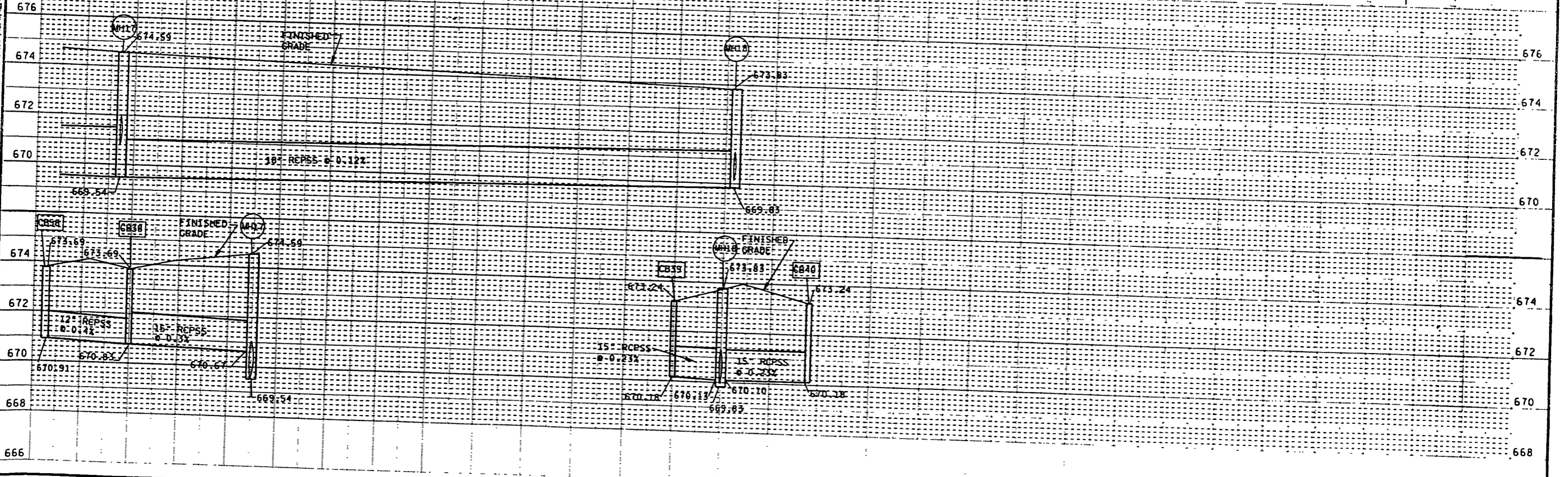


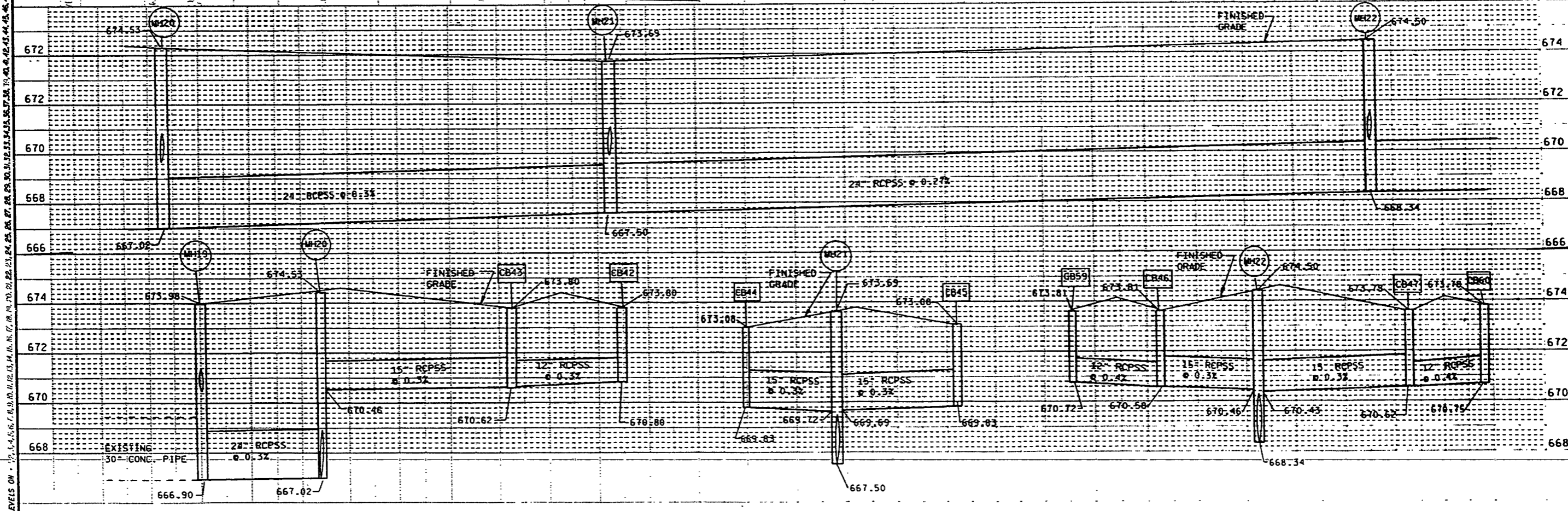
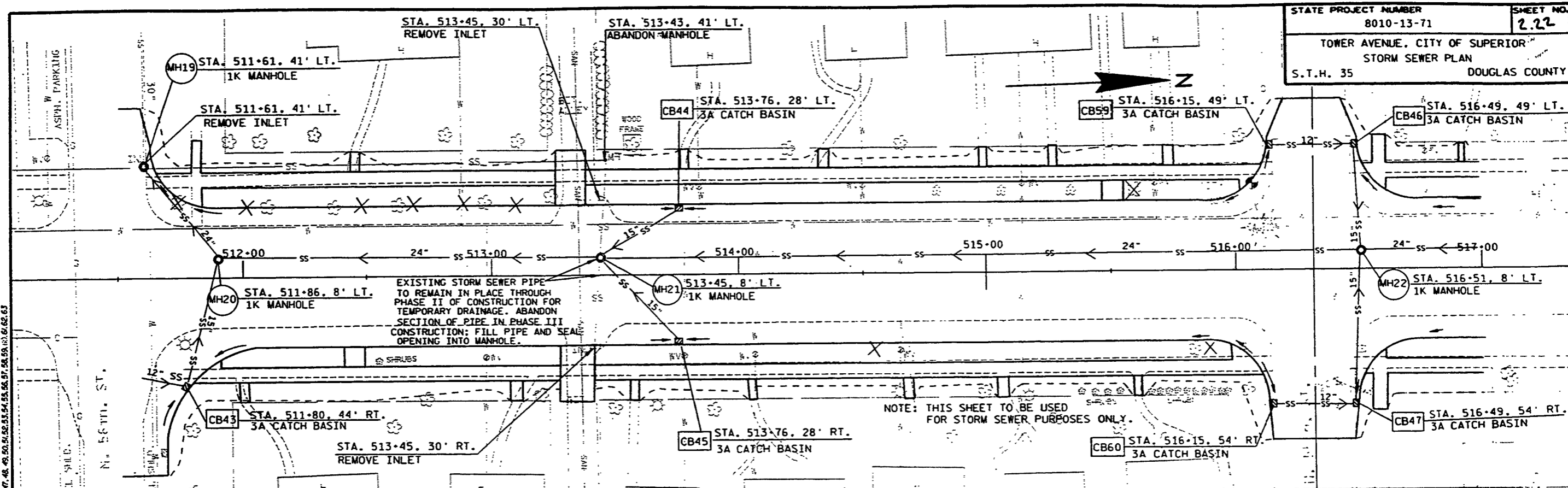
LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



NOTE: THIS SHEET IS TO BE USED FOR STORM SEWER PURPOSES ONLY.

LEVELS ON: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63





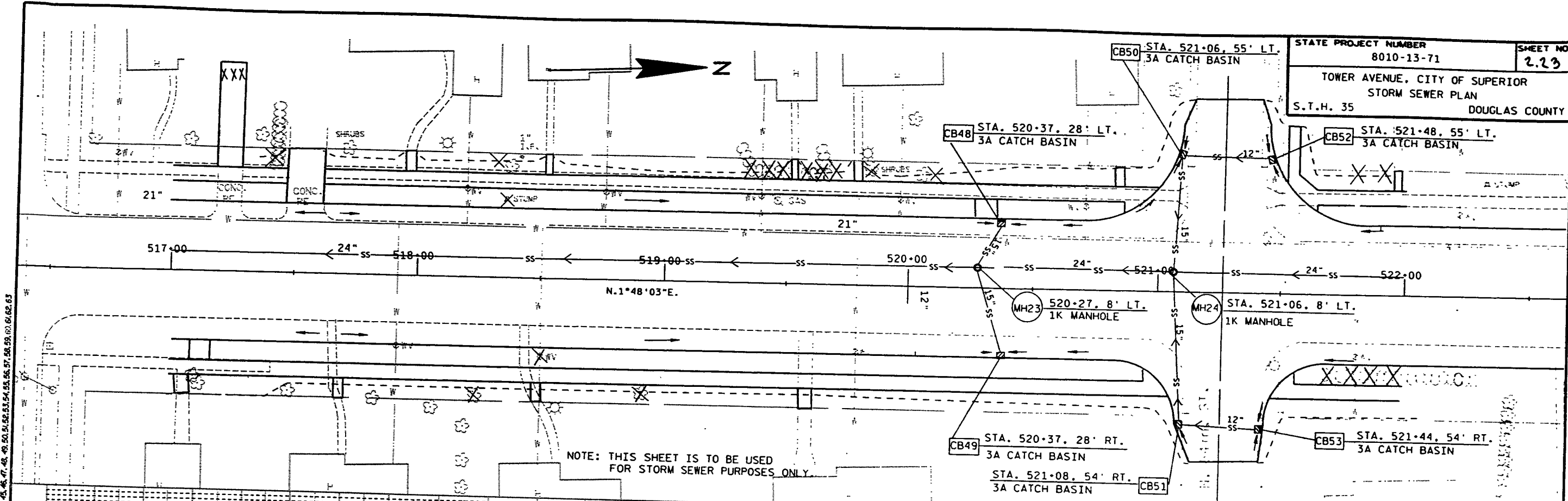
LEVELS ON - 12.5, 13.5, 14.5, 15.5, 16.5, 17.5, 18.5, 19.5, 20.5, 21.5, 22.5, 23.5, 24.5, 25.5, 26.5, 27.5, 28.5, 29.5, 30.5, 31.5, 32.5, 33.5, 34.5, 35.5, 36.5, 37.5, 38.5, 39.5, 40.5, 41.5, 42.5, 43.5, 44.5, 45.5, 46.5, 47.5, 48.5, 49.5, 50.5, 51.5, 52.5, 53.5, 54.5, 55.5, 56.5, 57.5, 58.5, 59.5, 60.5, 61.5, 62.5, 63.5, 64.5, 65.5, 66.5, 67.5, 68.5, 69.5, 70.5, 71.5, 72.5, 73.5, 74.5, 75.5, 76.5, 77.5, 78.5, 79.5, 80.5, 81.5, 82.5, 83.5, 84.5, 85.5, 86.5, 87.5, 88.5, 89.5, 90.5, 91.5, 92.5, 93.5, 94.5, 95.5, 96.5, 97.5, 98.5, 99.5, 100.5

STATE PROJECT NUMBER
8010-13-71

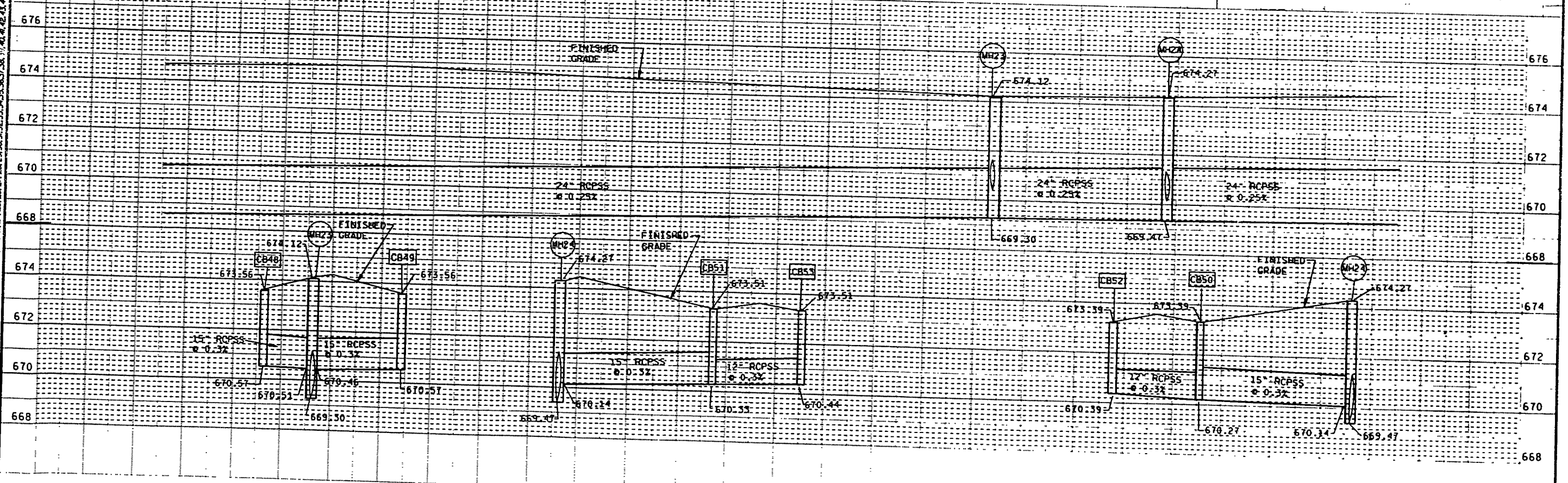
TOWER AVENUE, CITY OF SUPERIOR
STORM SEWER PLAN
S.T.H. 35

SHEET NO.
2.23

DOUGLAS COUNTY

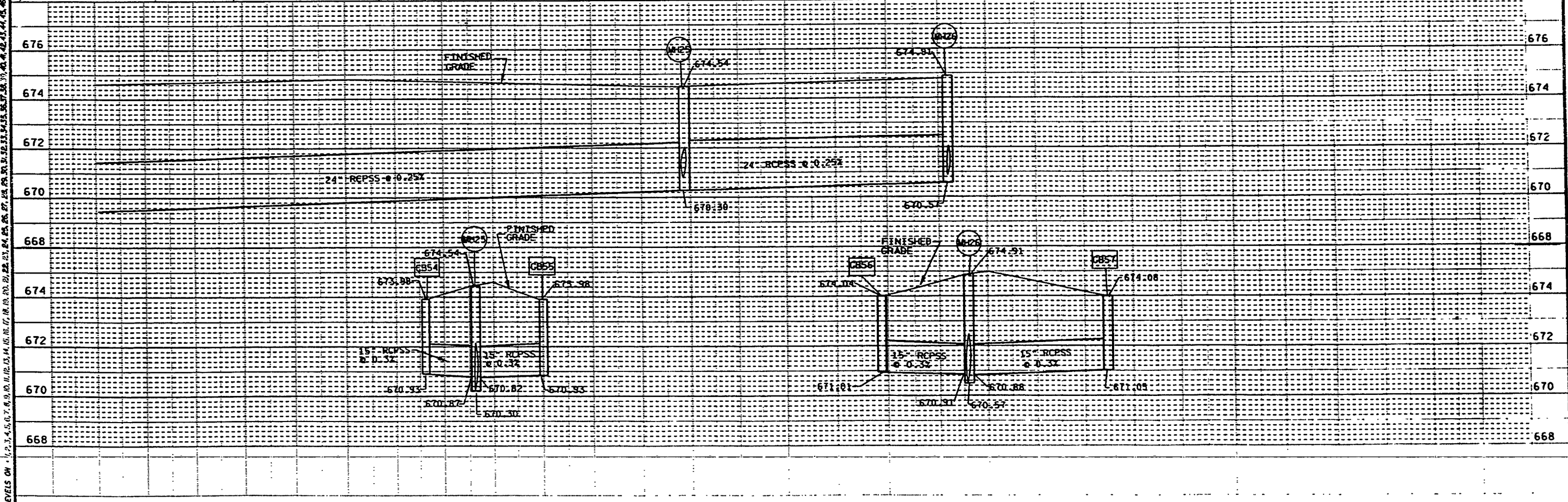
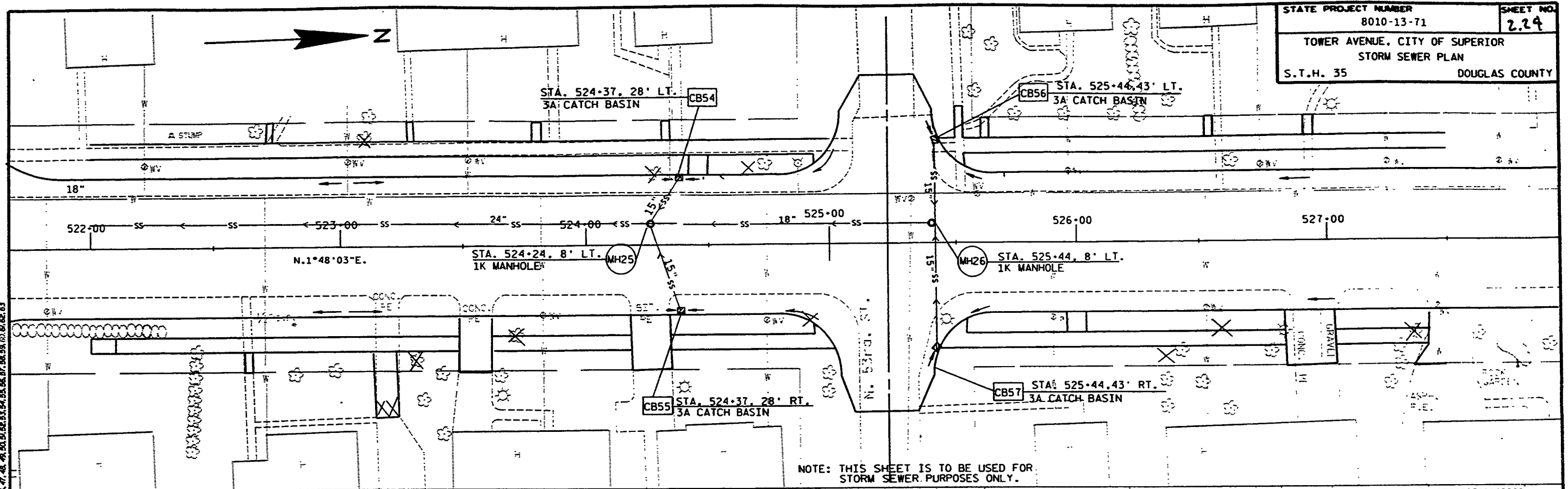


NOTE: THIS SHEET IS TO BE USED FOR STORM SEWER PURPOSES ONLY.



LEVELS ON: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

FILE NAME: DB_80101300_STORM9.DGN
ORIGINATOR: DISIBICI_8
PLOT NAME: STORM9
PLOT SCALE: 1/20

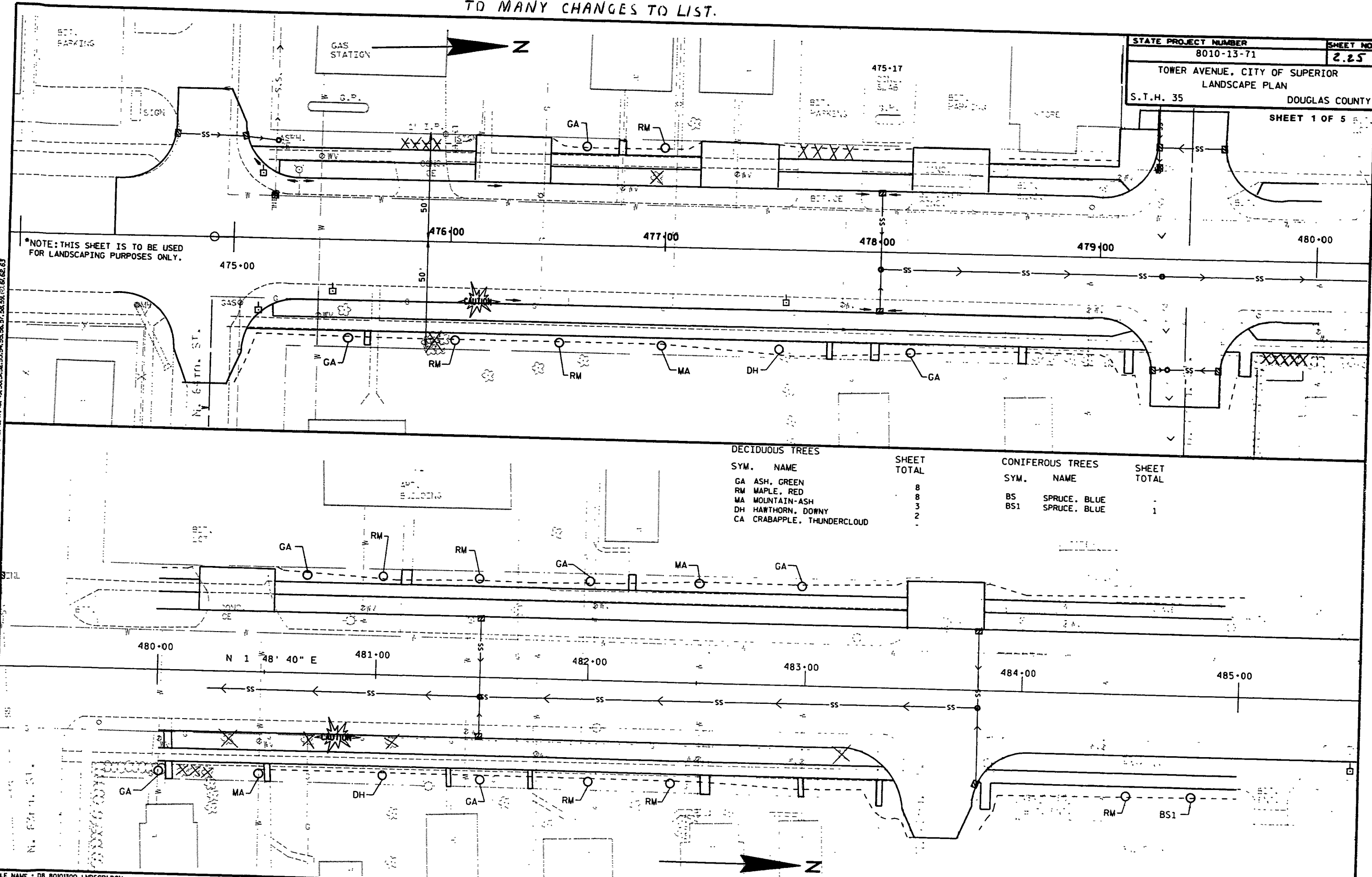


TO MANY CHANGES TO LIST.

STATE PROJECT NUMBER 8010-13-71 SHEET NO. 2.25
 TOWER AVENUE, CITY OF SUPERIOR
 LANDSCAPE PLAN
 S.T.H. 35 DOUGLAS COUNTY
 SHEET 1 OF 5

*NOTE: THIS SHEET IS TO BE USED FOR LANDSCAPING PURPOSES ONLY.

LEVELS ON 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



DECIDUOUS TREES

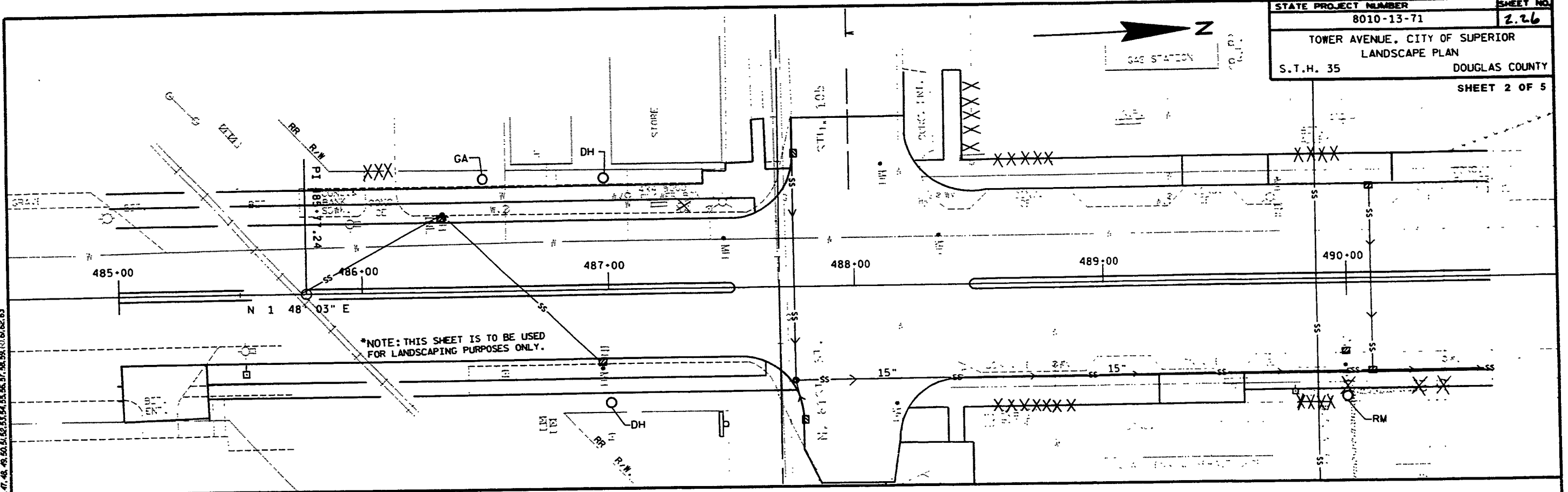
SYM.	NAME	SHEET TOTAL
GA	ASH, GREEN	8
RM	MAPLE, RED	8
MA	MOUNTAIN-ASH	3
DH	HAWTHORN, DOWNY	2
CA	CRABAPPLE, THUNDERCLOUD	-

CONIFEROUS TREES

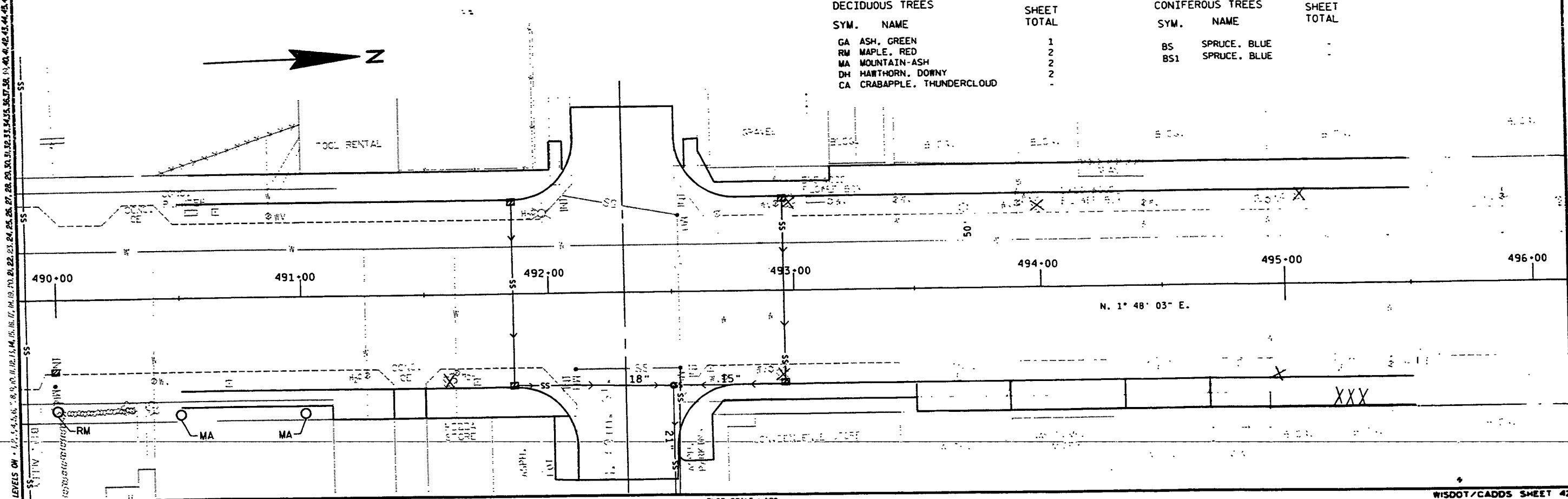
SYM.	NAME	SHEET TOTAL
BS	SPRUCE, BLUE	-
BS1	SPRUCE, BLUE	1

FILE NAME : DB_80101300_LNDSCP1.DGN ORIGINATOR : DSIBICI_8 PLOT NAME : LNDSCP1 PLOT SCALE : 1/100

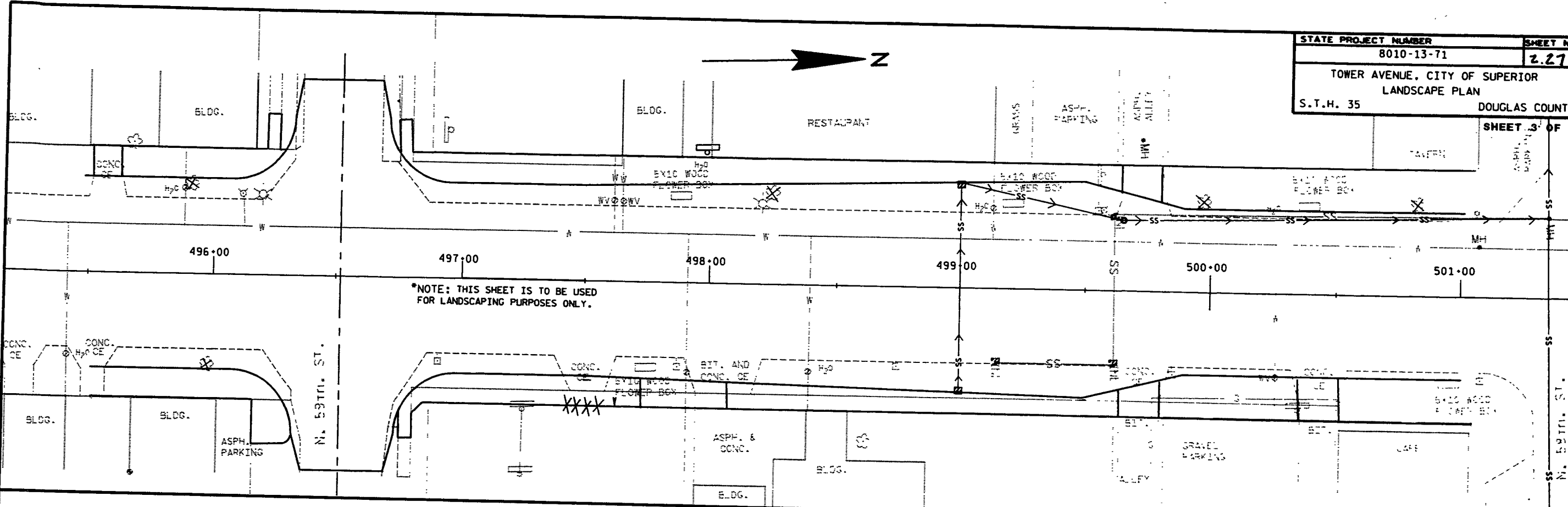
STATE PROJECT NUMBER 8010-13-71 SHEET NO. 2.26
 TOWER AVENUE, CITY OF SUPERIOR
 LANDSCAPE PLAN
 S.T.H. 35 DOUGLAS COUNTY
 SHEET 2 OF 5



DECIDUOUS TREES		SHEET TOTAL	CONIFEROUS TREES		SHEET TOTAL
SYM.	NAME		SYM.	NAME	
GA	ASH, GREEN	1	BS	SPRUCE, BLUE	-
RM	MAPLE, RED	2	BS1	SPRUCE, BLUE	-
MA	MOUNTAIN-ASH	2			
DH	HAWTHORN, DOWNY	2			
CA	CRABAPPLE, THUNDERCLOUD	-			



LEVELS ON - 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6, 2.8, 3.0, 3.2, 3.4, 3.6, 3.8, 4.0, 4.2, 4.4, 4.6, 4.8, 5.0, 5.2, 5.4, 5.6, 5.8, 6.0, 6.2, 6.4
 FILE NAME : 08_80101300_LANDSCAPE2.DGN ORIGINATOR : DISIBIC1_8 PLOT NAME : LANDSCAPE2 PLOT SCALE : 1/20 WISDOT/CADD SHEET 42

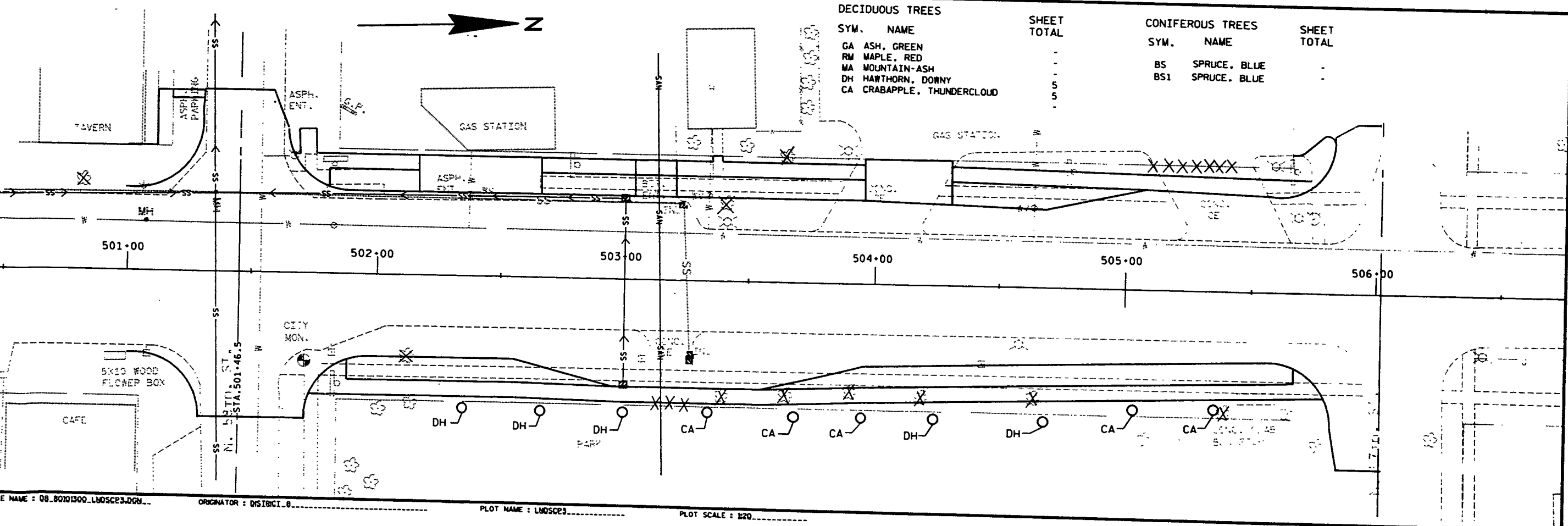


DECIDUOUS TREES

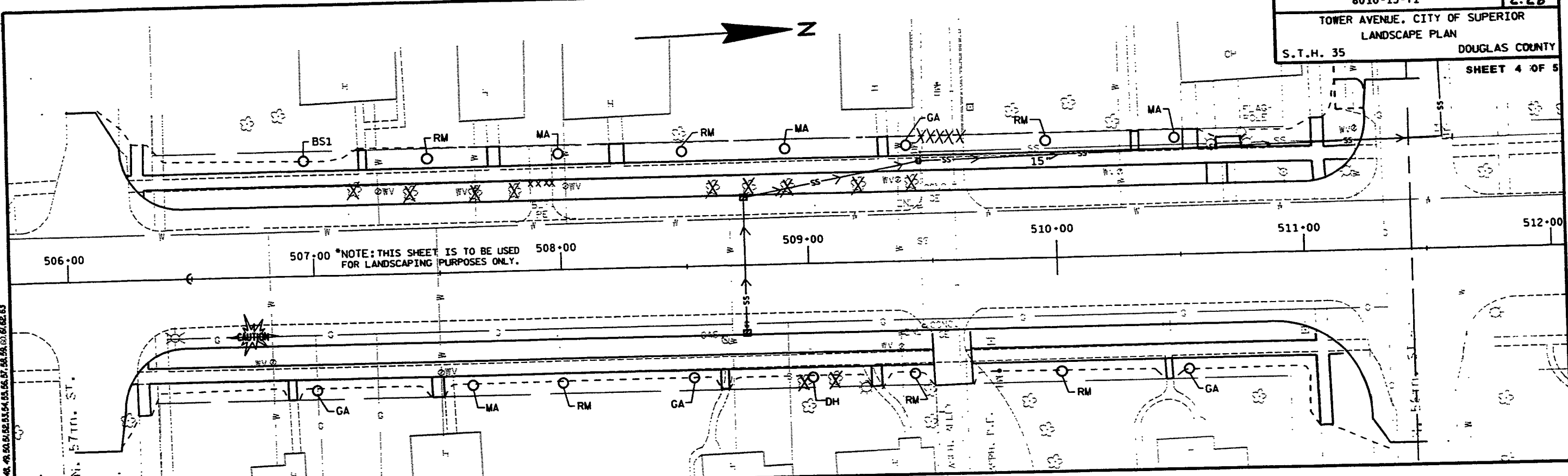
SYM.	NAME	SHEET TOTAL
GA	ASH, GREEN	1
RM	MAPLE, RED	1
MA	MOUNTAIN-ASH	1
DH	HAWTHORN, DOWNY	5
CA	CRABAPPLE, THUNDERCLOUD	5

CONIFEROUS TREES

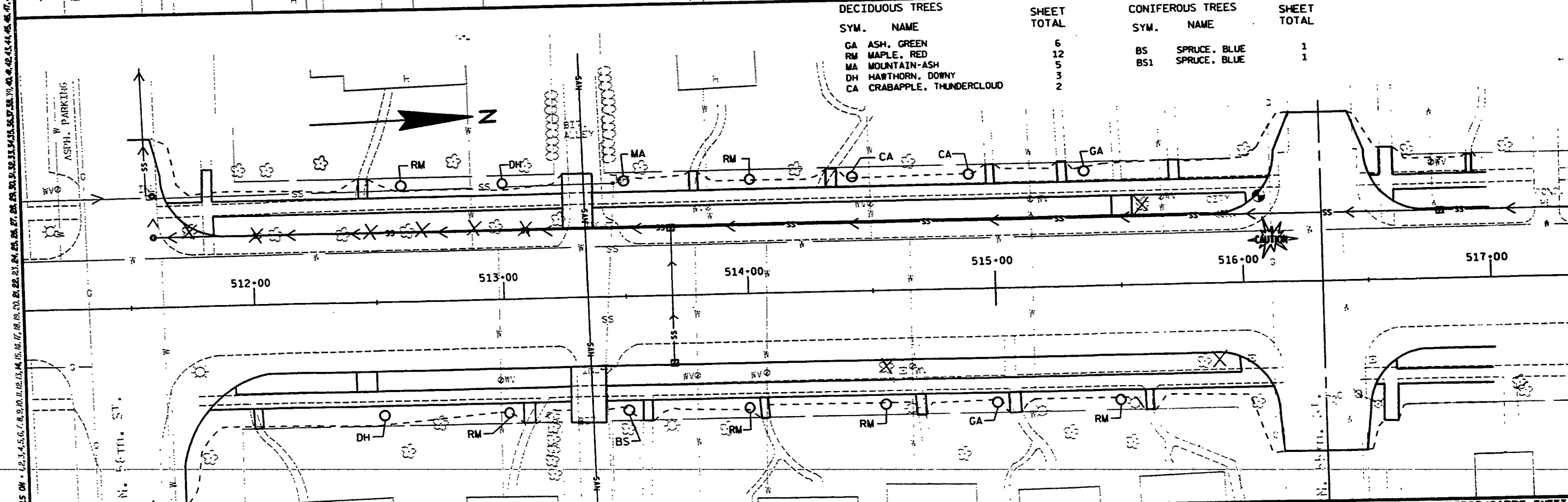
SYM.	NAME	SHEET TOTAL
BS	SPRUCE, BLUE	1
BS1	SPRUCE, BLUE	1



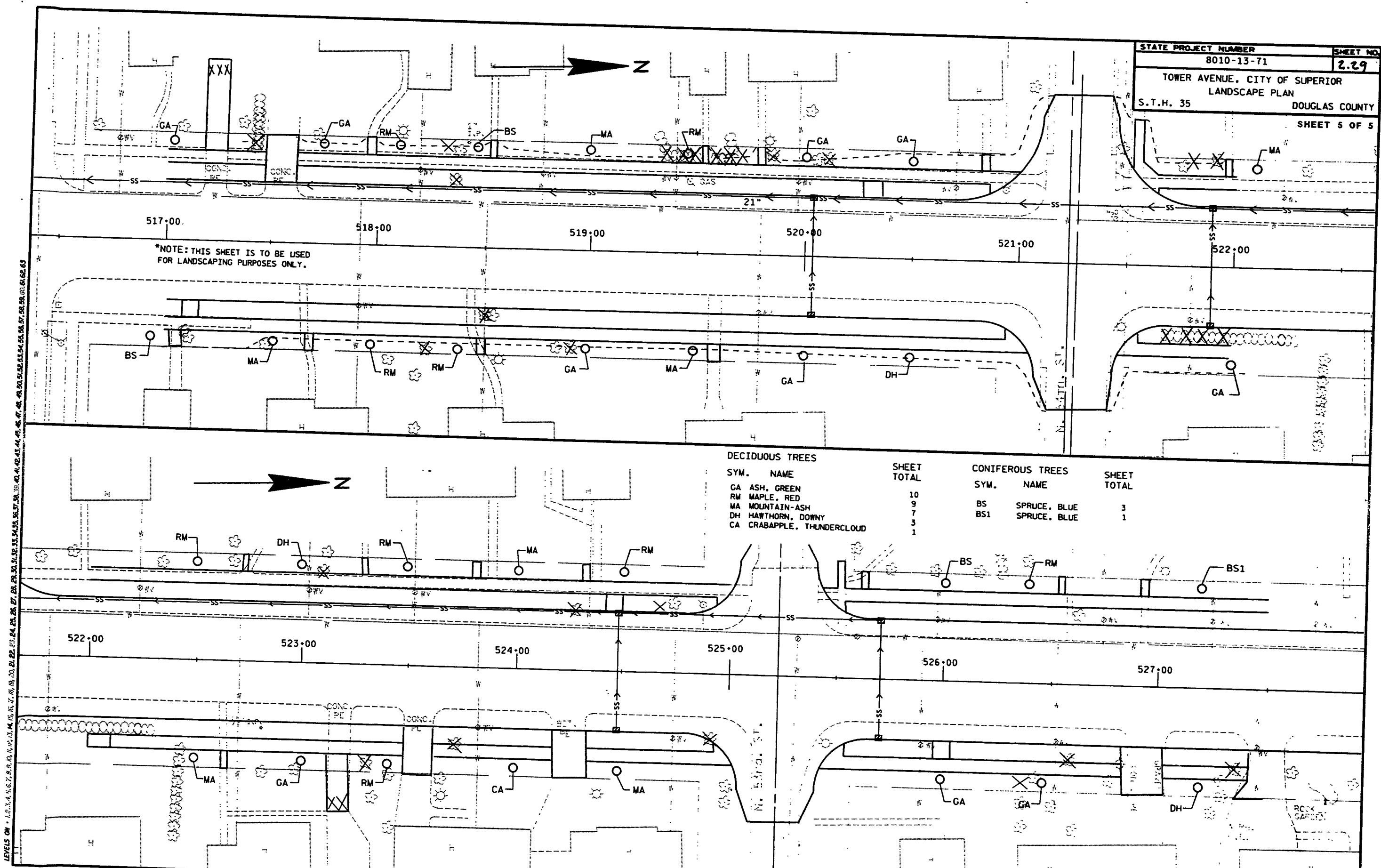
LEVELS ON = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



DECIDUOUS TREES		SHEET TOTAL	CONIFEROUS TREES		SHEET TOTAL
SYM.	NAME		SYM.	NAME	
GA	ASH, GREEN	6	BS	SPRUCE, BLUE	1
RM	MAPLE, RED	12	BS1	SPRUCE, BLUE	1
MA	MOUNTAIN-ASH	5			
DH	HAWTHORN, DOWNY	3			
CA	CRABAPPLE, THUNDERCLOUD	2			



LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



DECIDUOUS TREES

SYM.	NAME	SHEET TOTAL
GA	ASH, GREEN	10
RM	MAPLE, RED	9
MA	MOUNTAIN-ASH	7
DH	HAWTHORN, DOWNY	3
CA	CRABAPPLE, THUNDERCLOUD	1

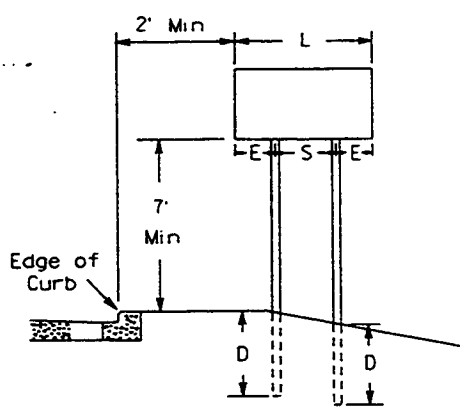
CONIFEROUS TREES

SYM.	NAME	SHEET TOTAL
BS	SPRUCE, BLUE	3
BS1	SPRUCE, BLUE	1

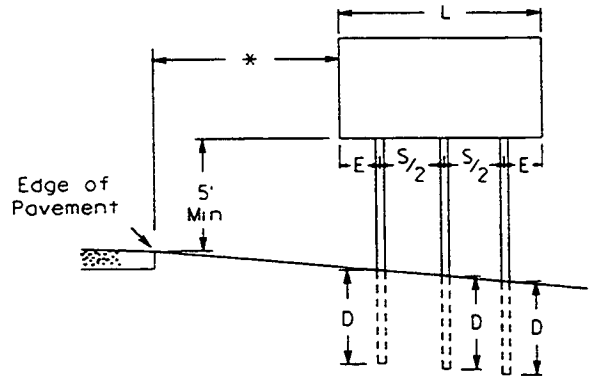
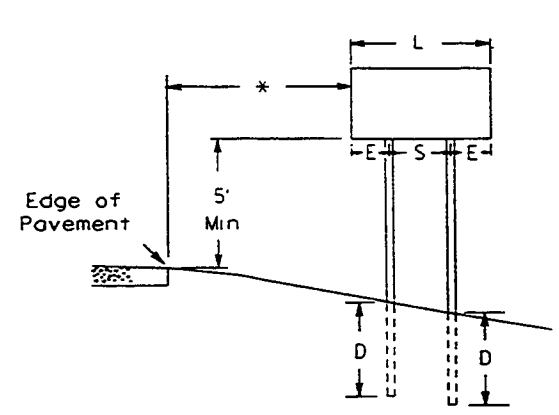
LEVELS ON - 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3

LEVELS ON 2.1.

URBAN AREA



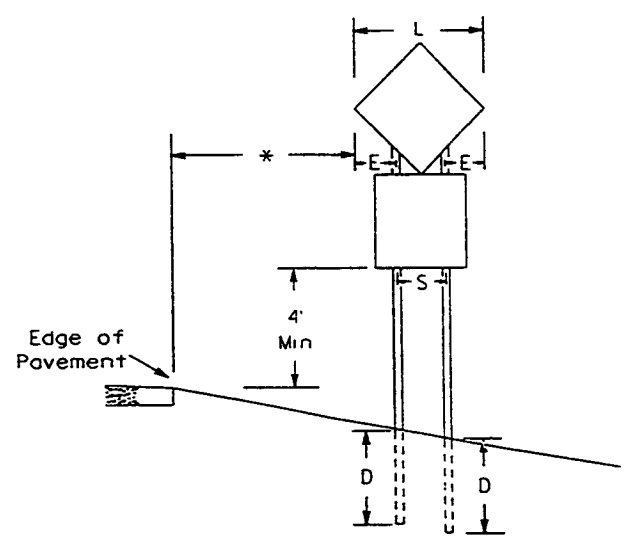
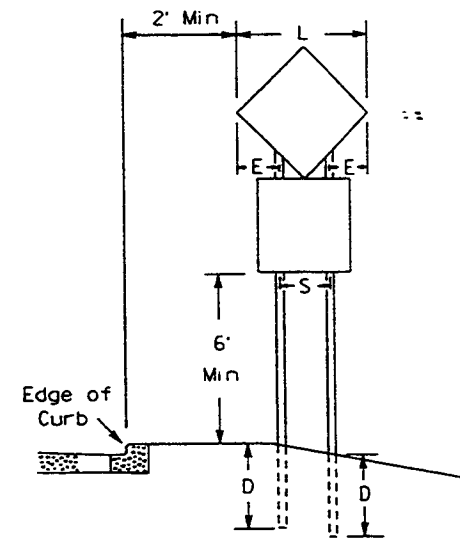
RURAL AREA



GENERAL NOTES

1. For 3 post installations, post spacing is S/2 and S must be greater than 7'-0"
2. For 4 post installations, post spacing is S/3 and S must be greater than 10'-6"

* 12 feet minimum from edge of pavement. Where there is a paved shoulder, 6' minimum from edge of paved shoulder, but at least 12 feet from edge of pavement.



DIAMOND SHAPED SIGNS		
L	S	E
Less than 60"	20"	L/2 - 10
60"--72"	32"	L/2 - 16
Greater than 72"	3 L/5	L/5

SIGN SHAPE OTHER THAN DIAMOND (Two Post Installations)		
L	S	E
Less than 60"	L-24"	12"
60" or more	3 L/5	L/5

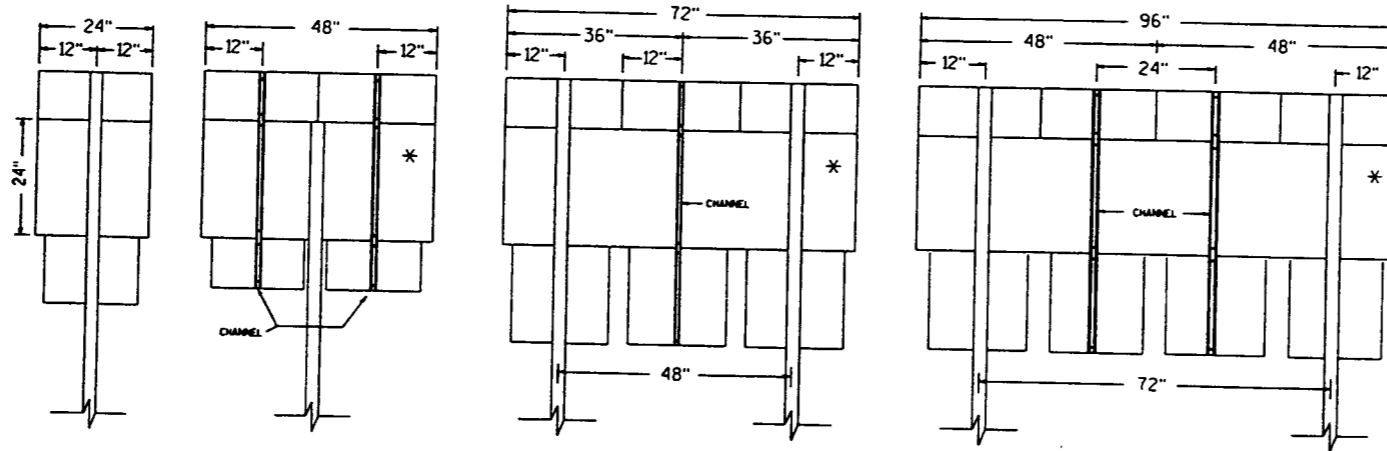
POST EMBEDMENT DEPTH	
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

DATE DRAWN 6-3-87 DATE REDRAWN 10-1-91
 DATE REVISED 11-6-92

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT. OF TRANSPORTATION

11/20/92 PLATE NO. 44-4.3



NOTES:

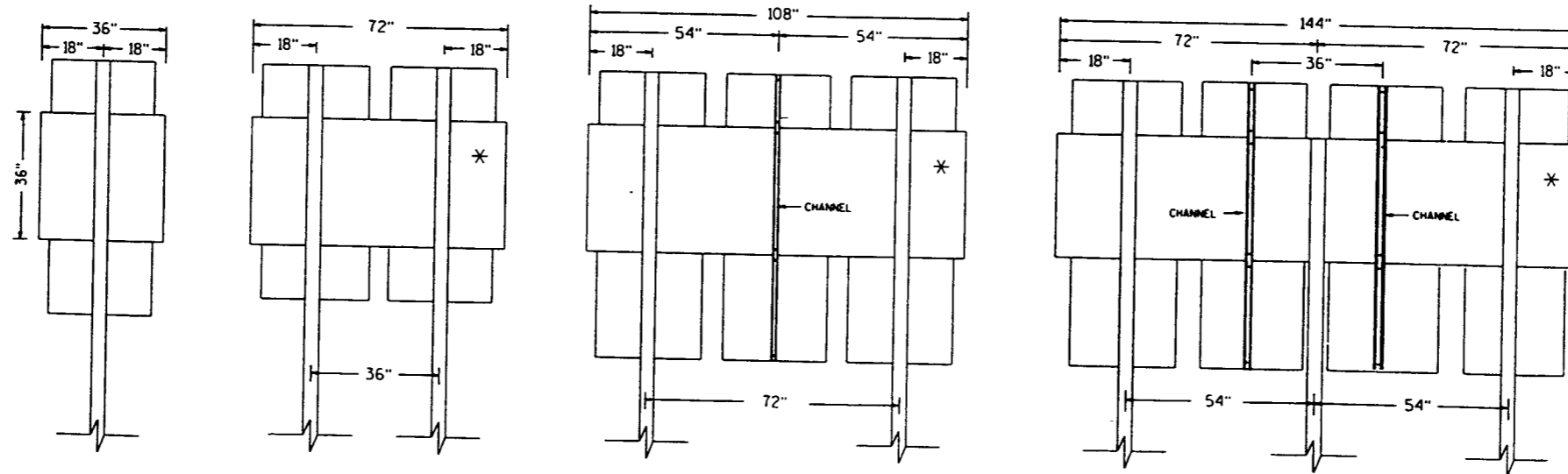
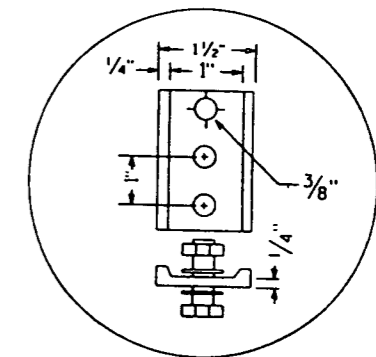
1. Post spacing shall be according to this detail but post embedment depth shall be in accordance with A4-4.
2. Channel material shall be as specified in Section 633 of Std. Specs. and weight shall be approx. 1.4 lbs/ft.
3. Base material for a multiple marker head panel (*) shall be one piece high density overlay plywood. All other materials within the assembly can be either plywood or aluminum.

CHANNEL HARDWARE:

Aluminum Sign components: -1/4" x 3/4" bolt and 1/4" flat washers

Plywood Sign Components: -1/4" x 1 1/4" bolt and 1/4" flat washers

CHANNEL DETAIL



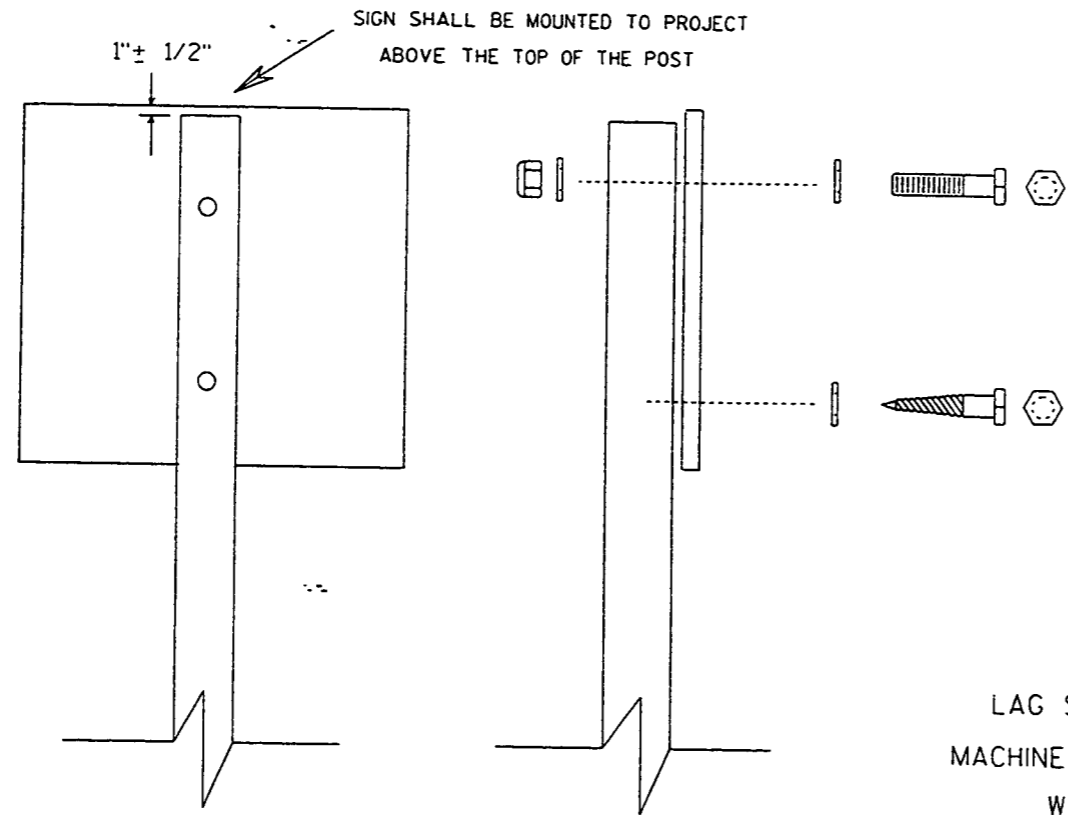
DATE DRAWN 5-3-87 DATE REDRAWN 10-3-91
DATE REVISED

TYPICAL PANEL INSTALLATION
FOR J TYPE ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED: *[Signature]*
State Traffic Engineer
DATE 4/5/91 PLATE NO. A4-5.3

54 99

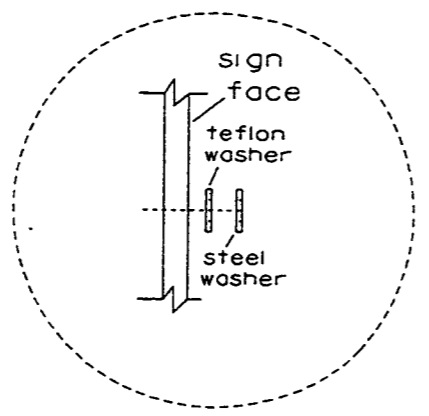


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
- b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
- c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

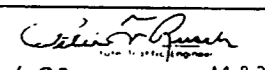
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- LAG SCREWS - 3/8" X 3"
- MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- WASHERS - 1" O.D. X 3/8" I.D. X 1/16" STEEL for signs 24x24 and smaller.
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL for signs 24x30 to 36x48.
- 1-1/2" O.D. X 7/16" I.D. X 1/16" STEEL for signs 48x48 and larger.
- 1-1/4" O.D. X 3/8" I.D. X .080 TEFLON for all Type H signs.

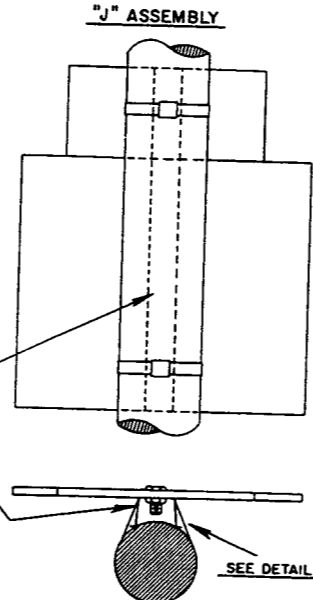
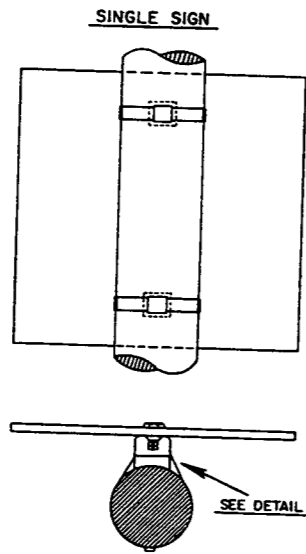


Washer Placement when Sign Has Type H Face

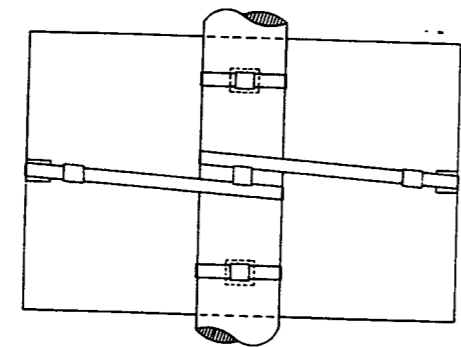
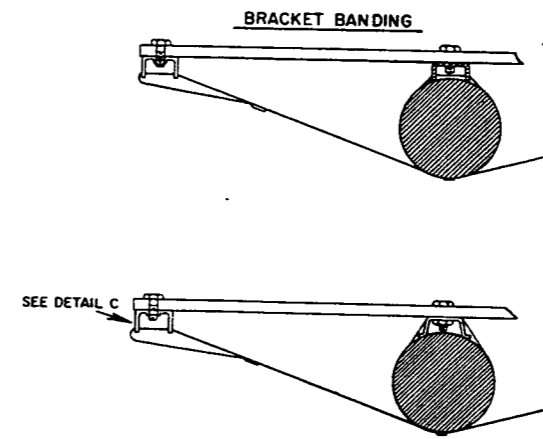
INVEST. DIV. 2

DATE ISSUED: 1-29-92	DATE REVISION:
ATTACHMENT OF SIGNS TO WOOD POSTS	
 DATE: 2-1-92 SCALE NO.: A4-B.2	

PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
PROJECT DESIGNATION	233	

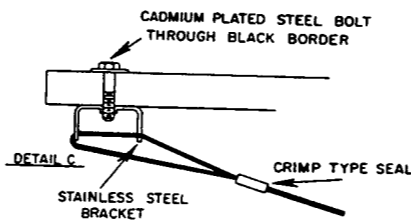
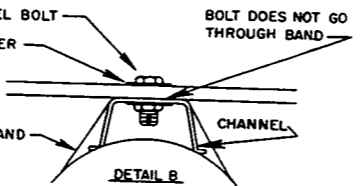
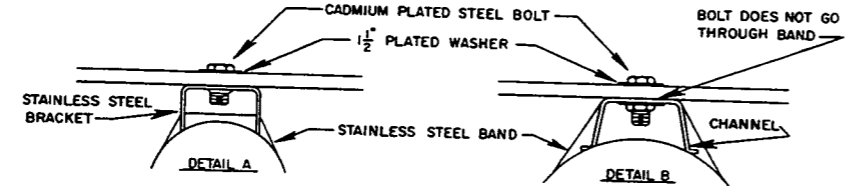
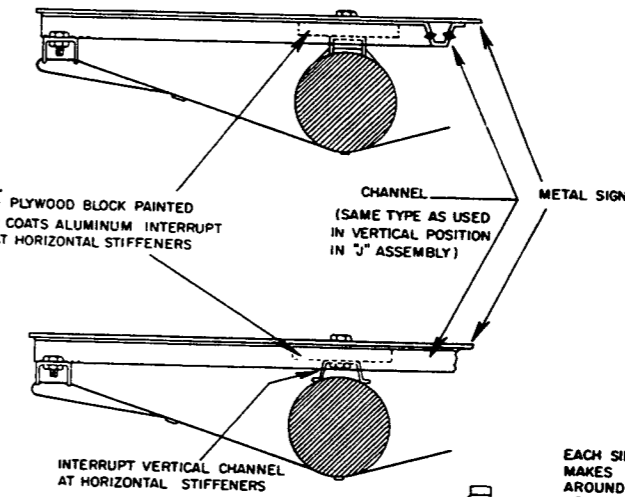
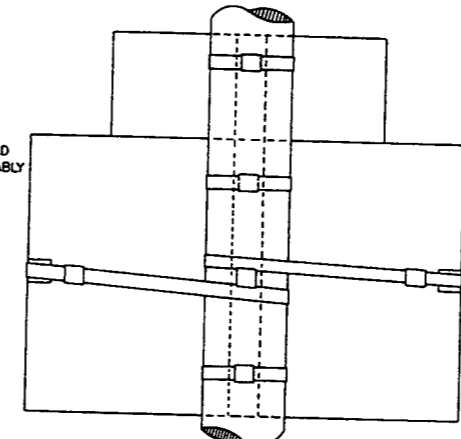


CHANNEL
SEE TYPICAL
PANEL INSTALLATION
SHEET



BRACKET BANDING
USE ONE BRACE BAND ON EACH
SIGN 4 FEET OR MORE IN WIDTH.

BRACE BANDING SHALL BE TIGHTENED
FIRMLY BUT NOT SO TIGHT AS TO APPRECIABLY
CURVE FACE OF SIGN.



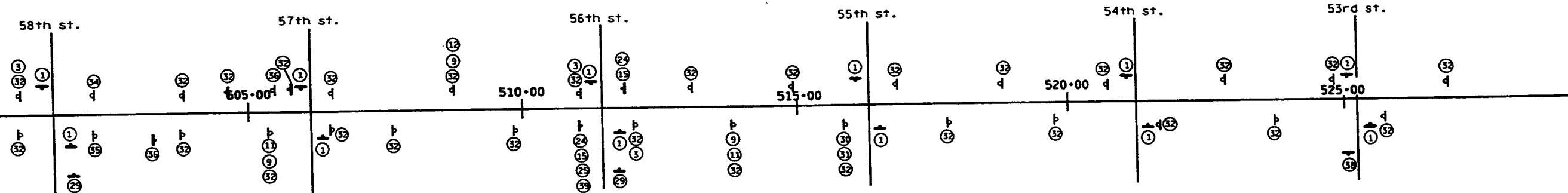
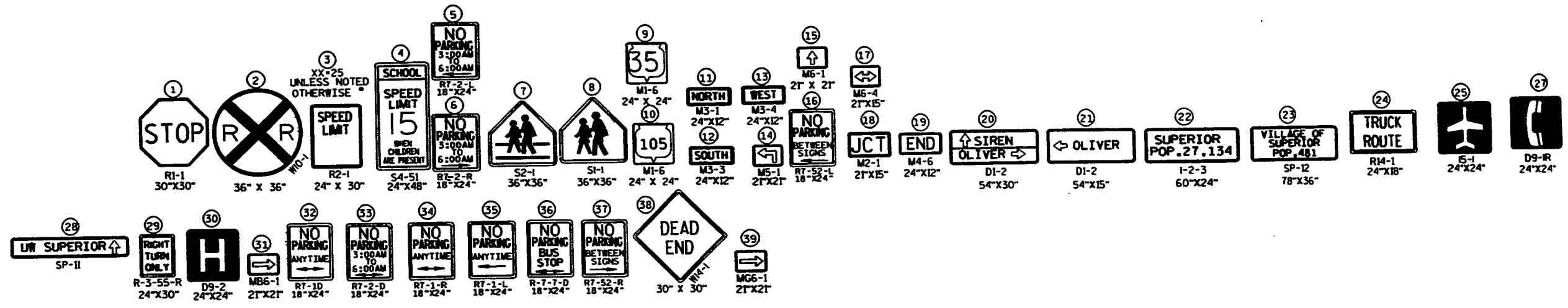
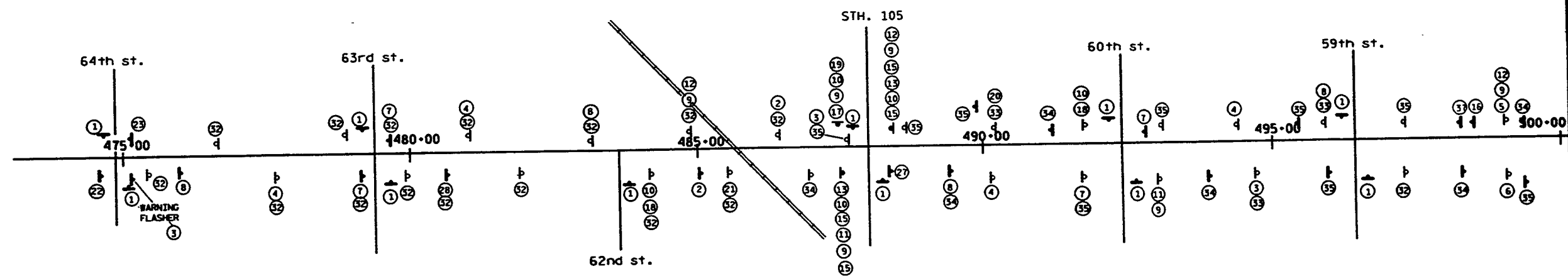
BRACE BANDING

NUMBER OF BRACKET BANDS
WHEN THE AREA OF THE SIGN OR SIGN
ASSEMBLY IS LESS THAN 10 SQUARE FEET
TWO BRACKET BANDS SHALL BE USED
WHEN THE AREA IS 10 SQUARE FEET OR
MORE, THREE BRACKET BANDS SHALL BE
USED

MATERIAL
BANDING AND ASSEMBLY BRACKET SHALL
STAINLESS STEEL ALL BANDING SHALL BE
3/4-INCH IN WIDTH

EACH SIDE OF BRACE BANDING
MAKES ONE COMPLETE LOOP
AROUND POLE-SEAL ON BACK
OF POLE

Date Redrawn - 2/18/71
Date Revised -
SIGN BANDING DETAILS
WISCONSIN DIVISION OF HIGHWAYS
APPROVED _____ CHIEF TRAFFIC ENGINEER
DATE _____ PLATE NO. A3-9.1

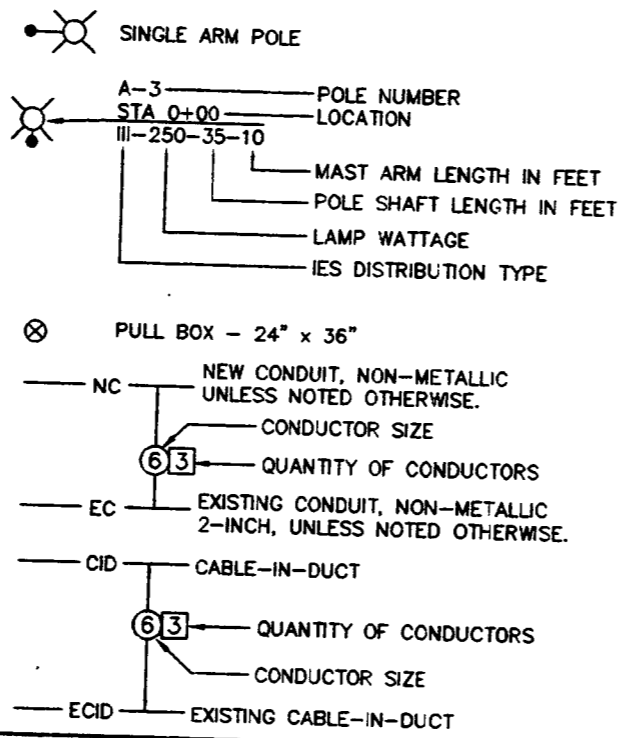


NOTE: ALL PARKING SIGNS SHALL BE SET AT A 45° ANGLE

- 4 SIGNS MOUNTED ON STREET LIGHT POLE (BANDING REQ'D)
- 4 SIGNS MOUNTED ON WOOD POST, 4"x4"
- 4 SIGNS MOUNTED ON STEEL POST, TYPE H

LEVELS ON 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

LIGHTING / ELECTRICAL LEGEND

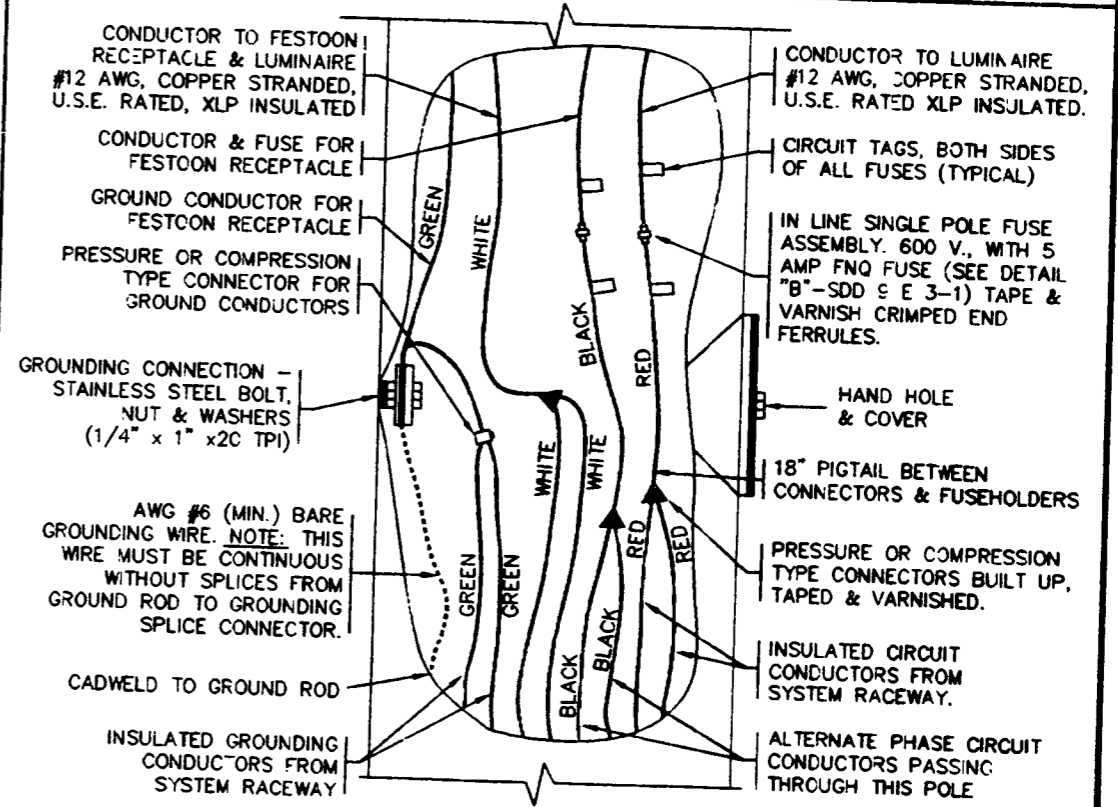


GENERAL NOTES

- ALL STATIONING IS REFERENCED FROM THE TOWER AVENUE REFERENCE LINE, UNLESS SPECIFICALLY NOTED OTHERWISE.
- CABLE IN DUCT SHALL BE PLACED WITHIN ONE (1) FOOT BEHIND CURB, TOWARD SIDEWALK.
- CONDUIT SHALL BE PLACED WITHIN ONE (1) FOOT BEHIND CURB, UNDER SIDEWALK.
- PROVIDE 2" NONMETALLIC SLEEVES UNDER ALL DRIVEWAYS AND ALLEYS ROUTE CABLE-IN-DUCT THROUGH SLEEVES. SLEEVES SHALL EXTEND 2-FEET BEYOND EITHER SIDE OF DRIVEWAY.
- REFER TO ALL OTHER SHEETS OF THE PLANS FOR UTILITY LOCATIONS, RAILROAD SIGNALS AND CONTROLLERS.
- INDICATED DIMENSIONS ARE NOMINAL, MINOR VARIATIONS BEING PERMITTED.

ABBREVIATIONS

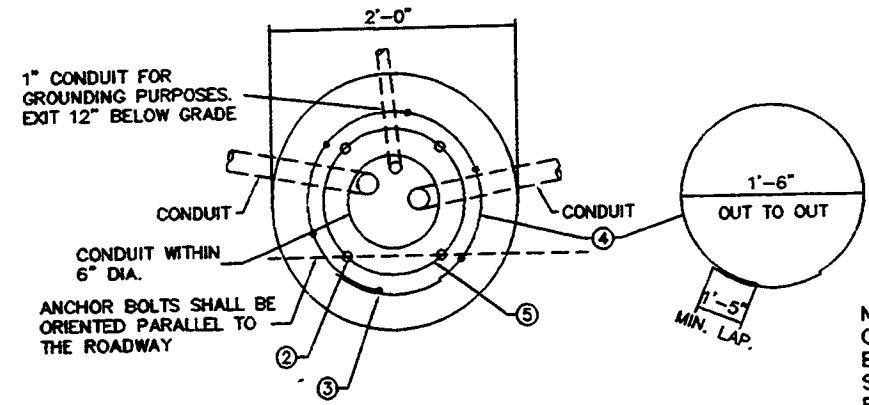
CL	CENTERLINE	P.L.	PROPERTY LINE
CID	CABLE-IN-DUCT	R	RADIUS
CONC.	CONCRETE	R.L.	REFERENCE LINE
DB	DIRECT BURIAL	RT.	RIGHT
E	ELECTRIC	R/W	RIGHT OF WAY
E.B.	EAST BOUND	S.B.	SOUTH BOUND
EC	EXISTING CONDUIT	S.E.	SOUTHEAST
ECID	EXISTING CABLE-IN-DUCT	SEC.	SECTION
FDN.	FOUNDATION	STA.	STATION
LT.	LEFT	S.T.H.	STATE TRUNK HIGHWAY
MAX	MAXIMUM	S.W.	SOUTHWEST
MIN	MINIMUM	U.S.H.	UNITED STATES HIGHWAY
N.B.	NORTH BOUND	VAR	VARIABLE
NC	NEW CONDUIT		
N.E.	NORTHEAST		
NO	NUMBER		
N.W.	NORTHWEST		



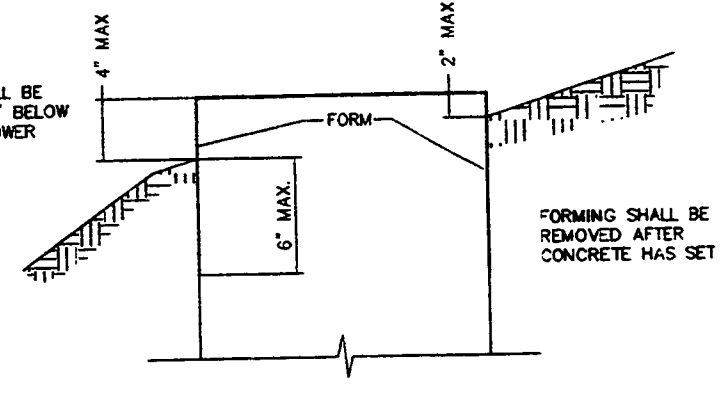
**LIGHTING UNIT POLE WIRING
120/240 VOLT, 3 WIRE**

DATE: OCTOBER 24, 1985
 REVISED:
 HVP DRAWING #1728
 SCALE: 1/8"=1'-0"
 HVP JOB #922207
 SDH JOB #

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.36
ELECTRICAL/LIGHTING DETAILS	
TOWER AVENUE, CITY OF SUPERIOR	
S.T.H. 35 DOUGLAS COUNTY	



FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE.

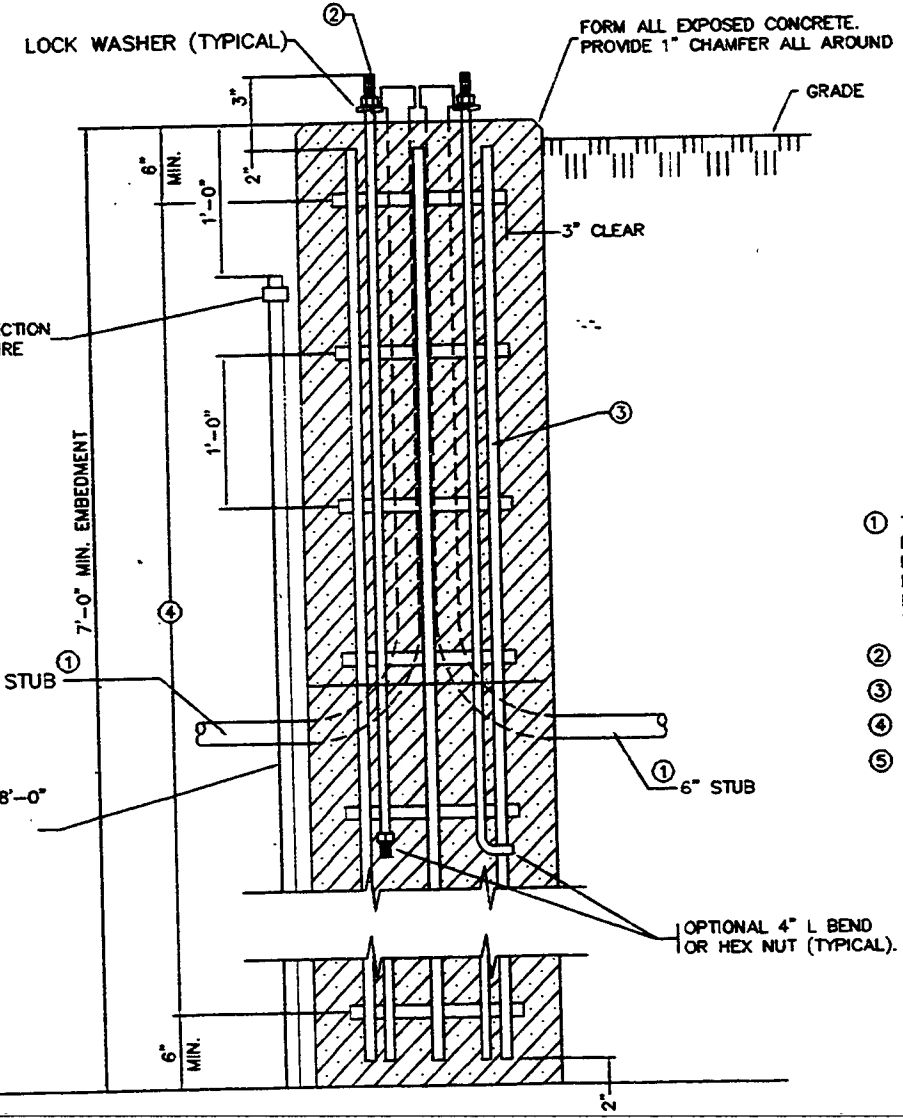


FORMING DETAIL

NOTE: CONTRACTOR SHALL VERIFY BOLT CIRCLE, ANCHOR BOLT SIZE, ARRANGEMENT AND PROJECTION.

GENERAL NOTES

- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT
- BASES SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER.
- TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.
- CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.
- MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.
- CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.
- ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.
- ALL NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL BE PLUGGED.
- ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.
- BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.
- ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.
- WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED
- IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.
- A NO. 6 AWG. STRANDED COPPER GROUNDING WIRE SHALL BE CADWELDED TO THE GROUND ROD
- THE GROUNDING WIRE SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE GROUNDING WIRE SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER
- ANCHOR BOLTS SHALL BE THREADED 8" IN LENGTH ON EACH END OF THE BOLT, AND BE MANUFACTURED IN ACCORDANCE WITH SECTION 640.2.9 OF THE STANDARD SPECIFICATIONS AND ASTM A-449, OR ASTM A-687 (GRADE 105).
- WHEN ANCHOR BOLTS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR BOLT BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

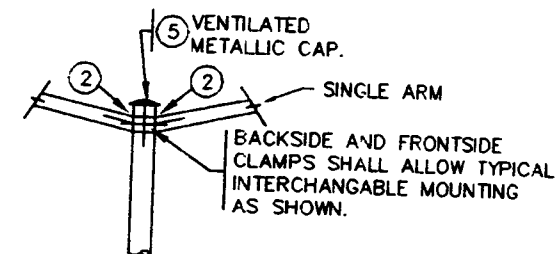
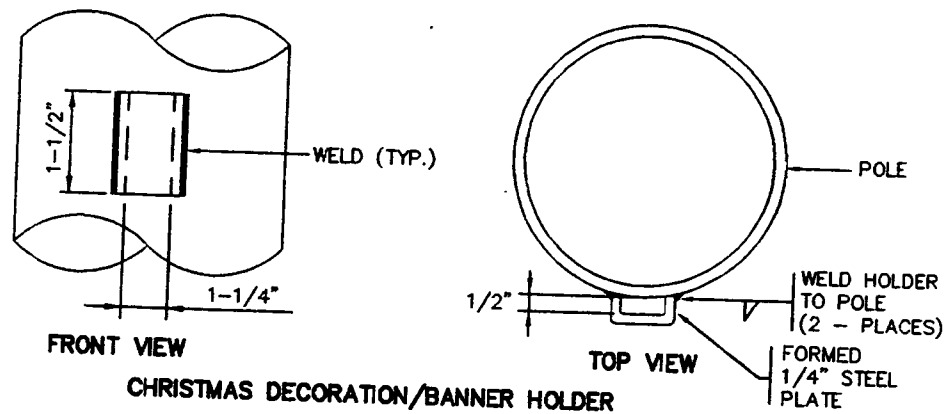


- KEY**
- ① THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.
 - ② (4) 1" DIA. X 3'-6" ANCHOR BOLTS. (42")
 - ③ (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.
 - ④ (7) NO. 4 X 6'-3" BAR STEEL REINFORCEMENT @ 1'-0" C-C
 - ⑤ POLE BASE BOLT CIRCLE: 30 AND 35 FOOT SHAFT - 11-1/2" @ 38.5 FOOT SHAFT - 13-1/2" @

CONCRETE BASE TYPE 5, SPECIAL

HVP DRAWING #020 SCALE: 1/8" = 1'-0"
 HVP JOB #02207
 DATE: OCTOBER 24, 1995
 REVISED:

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.37
ELECTRICAL/LIGHTING DETAILS TOWER AVENUE, CITY OF SUPERIOR S.T.H. 35 DOUGLAS COUNTY	

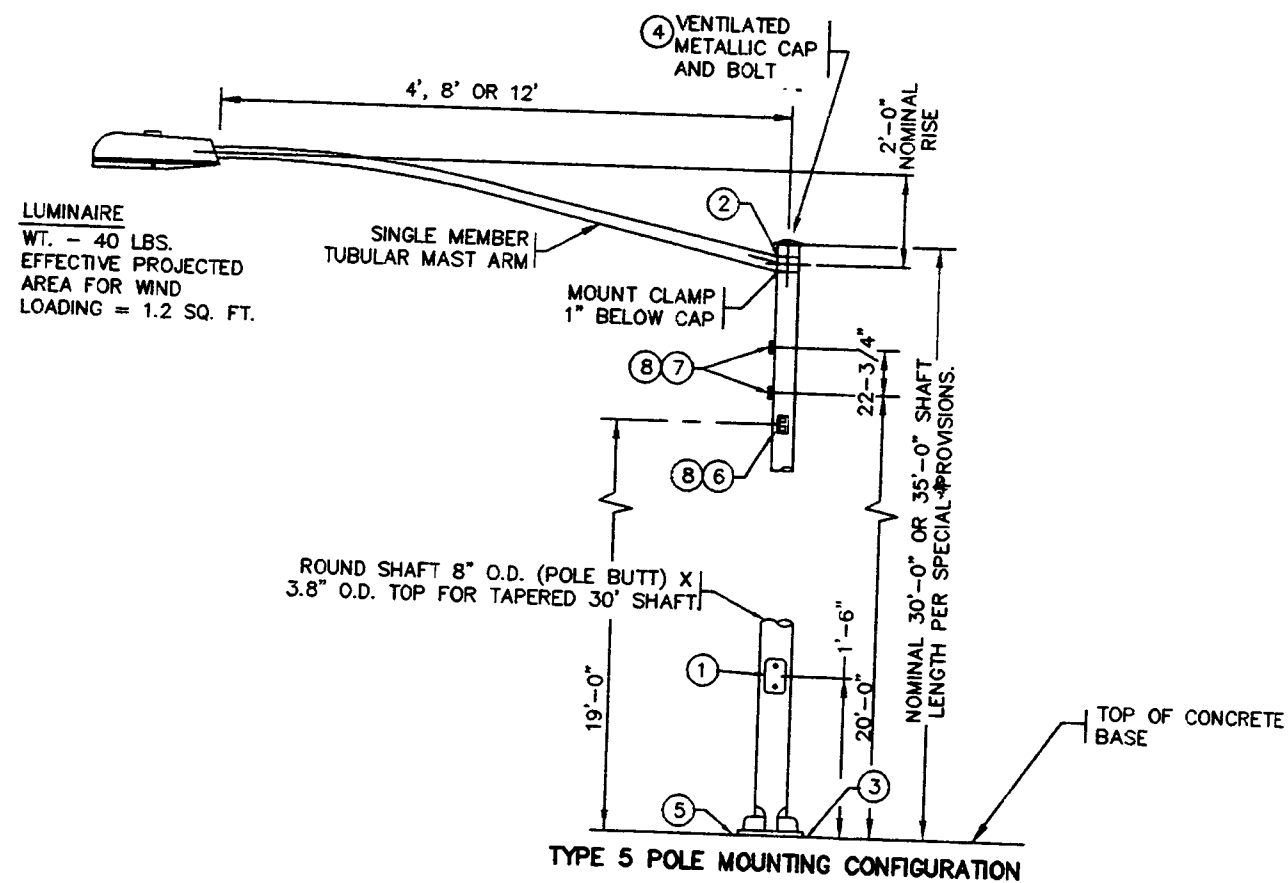


INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

ALL LUMINAIRE POLE MOUNTINGS SHALL BE DESIGNED FOR ARMS AND LUMINAIRES AS SHOWN ON THE PLANS.

THE SLIPFITTER END OF THE MAST ARM SHALL BE A NOMINAL 2-3/8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.



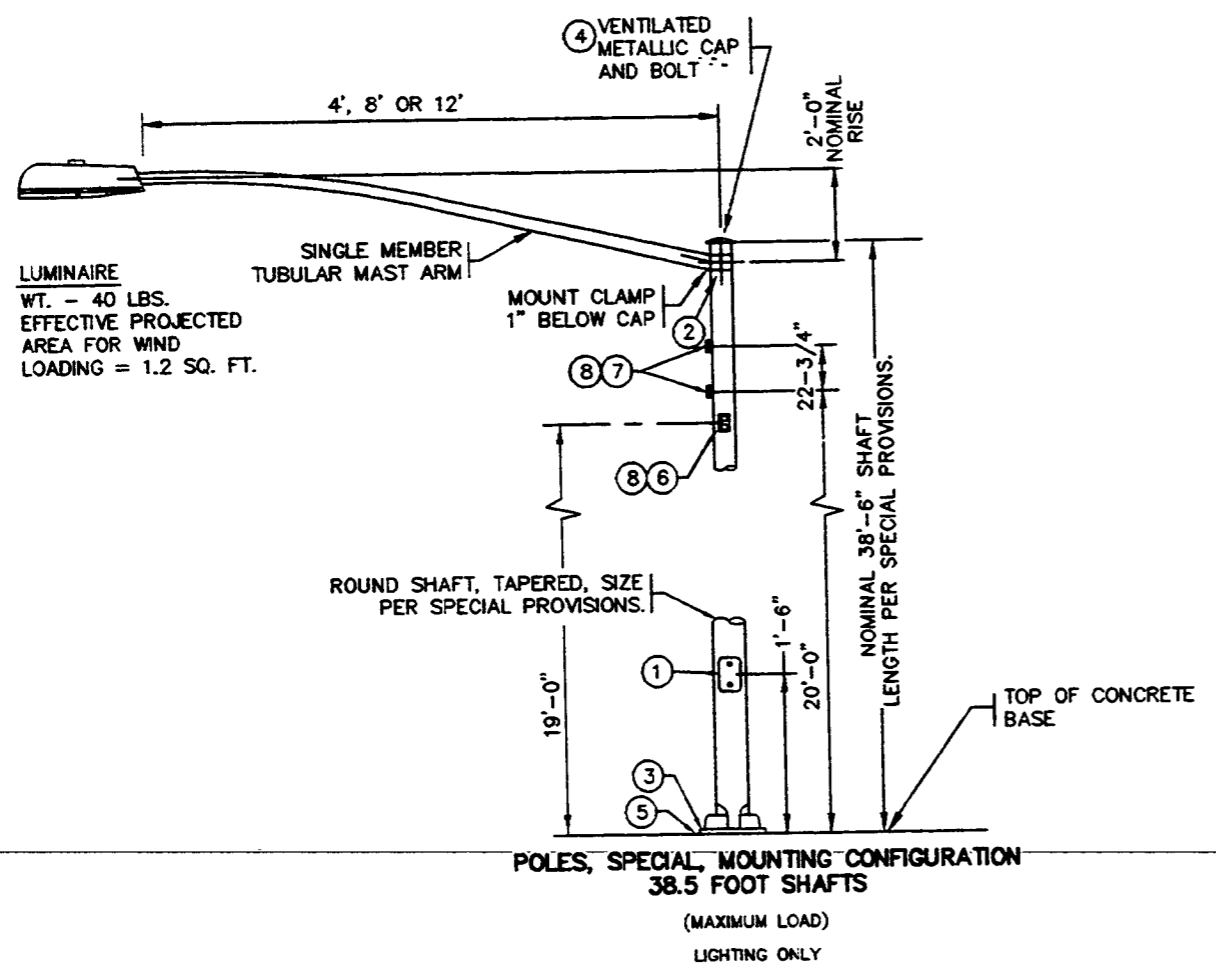
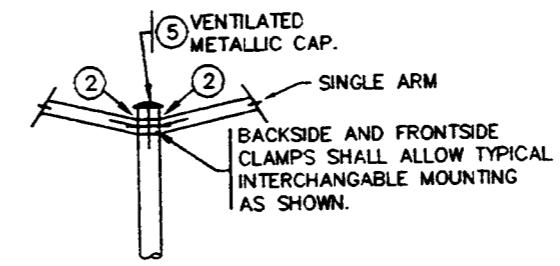
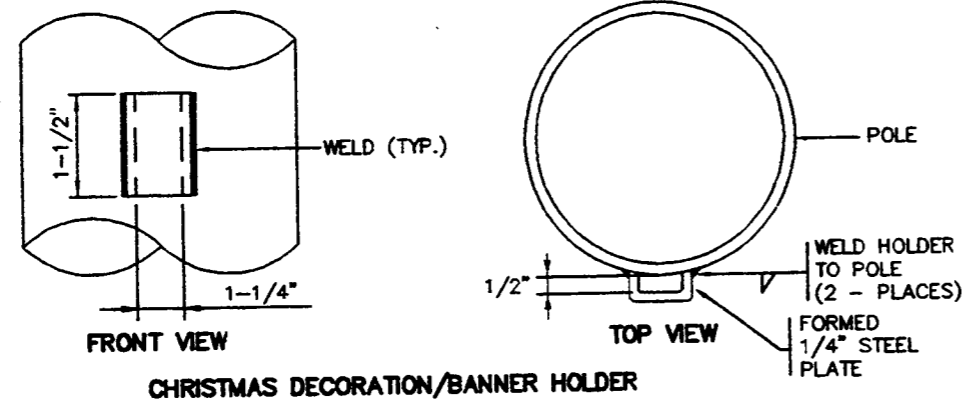
TYPE 5 POLE MOUNTING CONFIGURATION

(MAXIMUM LOAD)
LIGHTING ONLY

- ① 4" X 6" REINFORCED HAND HOLE & COVER ASSEMBLY WITH 2 (TWO) 1/4" X 3/4" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
- ② GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1-3/8" HOLE IN POLE SHAFT FOR WIRING.
- ③ POLE BASE
- ④ FURNISH AND INSTALL VENTILATED CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH 1 (ONE) 1/4"x3/4"-20 TPI STAINLESS STEEL HEX HEAD BOLT.
- ⑤ SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE POLE BASE.
- ⑥ FESTOON OUTLET WITH DUPLEX RECEPTACLE & WEATHERPROOF GASKETED COVER, LOCATE 90° CLOCKWISE FROM MAST ARM.
- ⑦ CHRISTMAS DECORATION/BANNER HOLDER - SEE DETAIL THIS SHEET, LOCATE 0' FROM MAST ARM.
- ⑧ VERIFY ALL DIMENSIONS FOR LOCATING & FABRICATING FESTOON OUTLETS & CHRISTMAS DECORATION/BANNER HOLDERS WITH OWNER DURING SHOP DRAWING APPROVAL.
- ⑨ SEE STANDARD DETAIL DRAWING S.D.D. 9 E 1-1e FOR HARDWARE DETAILS FOR POLE MOUNTINGS.

DATE: OCTOBER 24, 1995
 HVP DRAWING #021
 SCALE: 1/8" = 1'-0"
 HVP JOB #02207
 SHN JOB #

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.38
ELECTRICAL/LIGHTING DETAILS	
TOWER AVENUE, CITY OF SUPERIOR	
S.T.H. 35 DOUGLAS COUNTY	



GENERAL NOTES

ALL LUMINAIRE POLE MOUNTINGS SHALL BE DESIGNED FOR ARMS AND LUMINAIRES AS SHOWN ON THE PLANS.

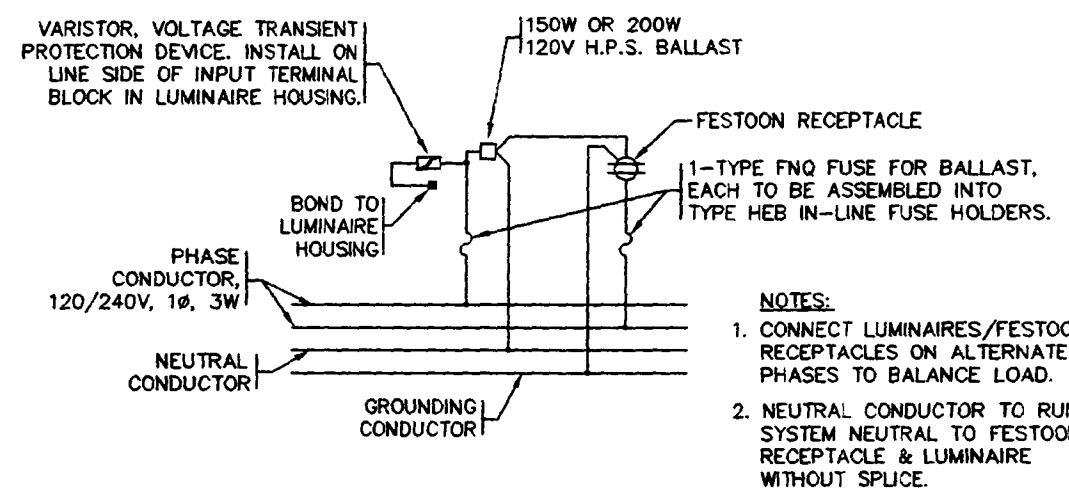
THE SLIPFITTER END OF THE MAST ARM SHALL BE A NOMINAL 2-3/8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

- ① 4" X 6" REINFORCED HAND HOLE & COVER ASSEMBLY WITH 2 (TWO) 1/4" X 3/4" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
- ② GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1-3/8" HOLE IN POLE SHAFT FOR WIRING.
- ③ POLE BASE.
- ④ FURNISH AND INSTALL VENTILATED CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH 1 (ONE) 1/4" X 3/4" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.
- ⑤ SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE POLE BASE.
- ⑥ FESTOON OUTLET WITH DUPLEX RECEPTACLE & WEATHERPROOF GASKETED COVER, LOCATE 90° CLOCKWISE FROM MAST ARM.
- ⑦ CHRISTMAS DECORATION/BANNER HOLDER - SEE DETAIL THIS SHEET, LOCATE 0" FROM MAST ARM.
- ⑧ VERIFY ALL DIMENSIONS FOR LOCATING & FABRICATING FESTOON OUTLETS & CHRISTMAS DECORATION/BANNER HOLDERS WITH OWNER DURING SHOP DRAWING APPROVAL.
- ⑨ SEE STANDARD DETAIL DRAWING S.D.D. 9 E 1-1e FOR HARDWARE DETAILS FOR POLE MOUNTINGS.

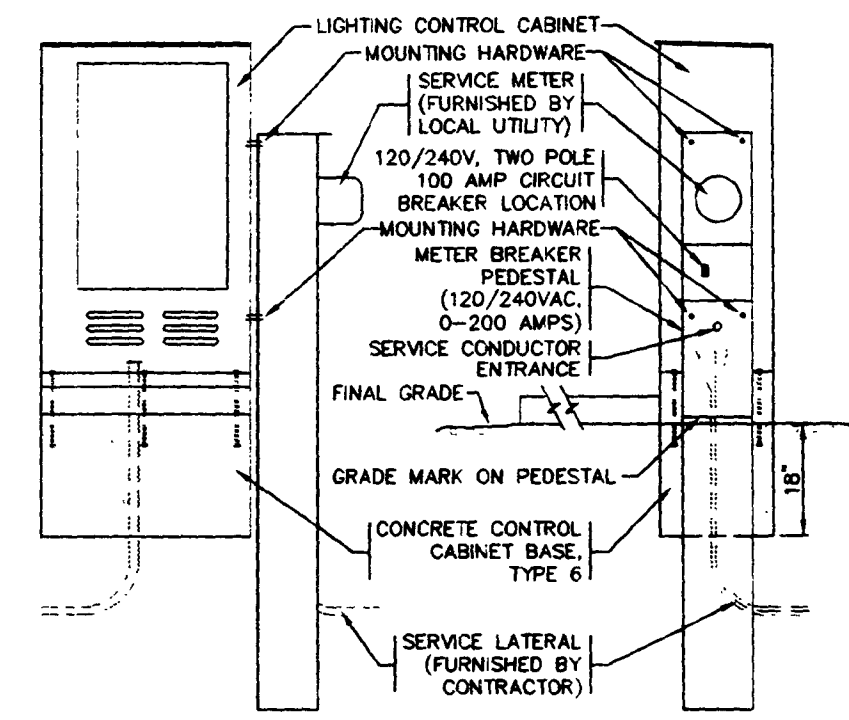
DATE: OCTOBER 24, 1985
 HVP JOB #2207
 HVP DRAWING #22
 SCALE: 1/8" = 1'-0"
 REVISED:

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.39
ELECTRICAL/LIGHTING DETAILS	
TOWER AVENUE, CITY OF SUPERIOR	
S.T.H. 35 DOUGLAS COUNTY	

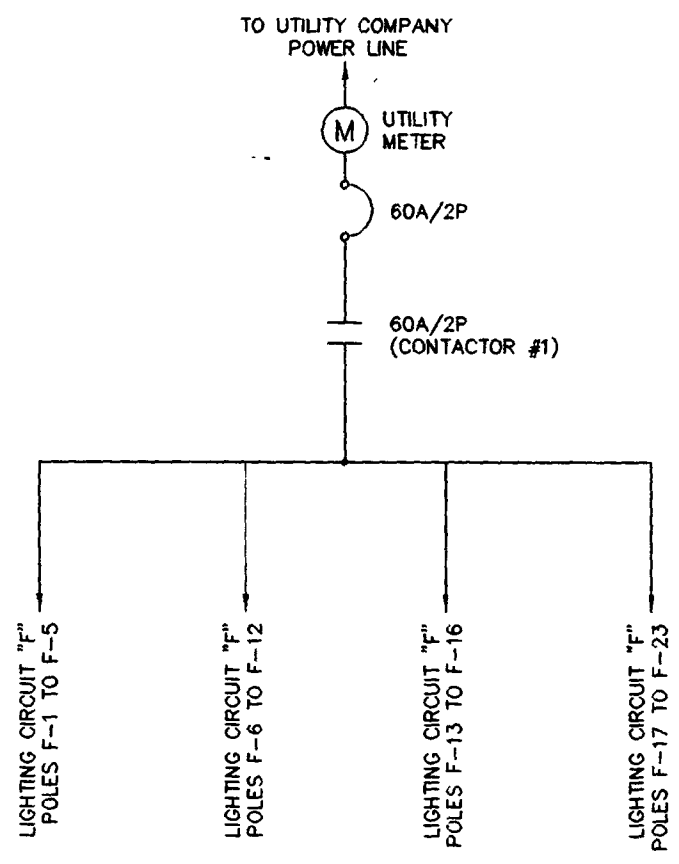
GENERAL NOTES:
 DETAILS OF CONSTRUCTION
 MATERIALS AND WORKMANSHIP
 NOT SHOWN ON THIS DRAWING
 SHALL CONFORM TO THE PERTINENT
 REQUIREMENTS OF THE CONTRACT.



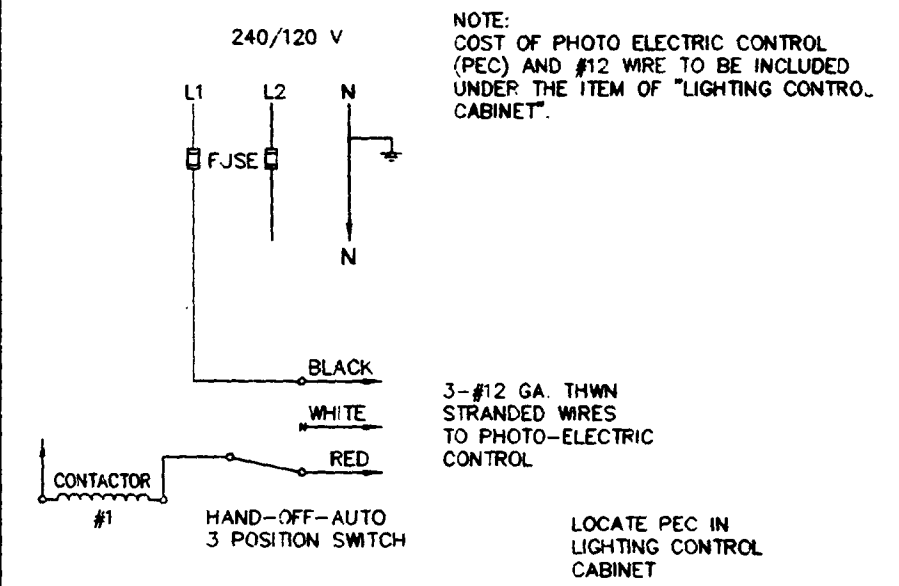
TYPICAL LUMINAIRE/FESTOON RECEPTACLE WIRING DIAGRAM
 120/240V, 1Ø, 3W SERVICE



ELECTRICAL SERVICE LIGHTING STA. 483+30 TOWER AVENUE 48.0' LT.



POWER ONE LINE DIAGRAM - 120/240V, 1Ø, 3 WIRE
 LIGHTING CONTROL CABINET NO. 1

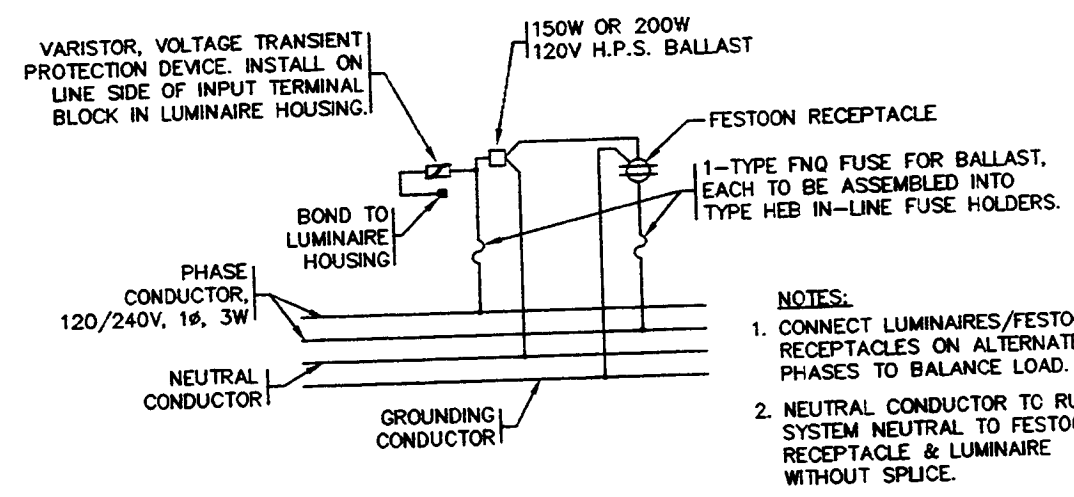


CONTROL WIRING SCHEMATIC
 LIGHTING CONTROL CABINET NO. 1

DATE: OCTOBER 24, 1985
 HVP DRAWING #023
 SCALE: 1/8"=1'-0"
 HVP JOB #02207
 SEH JOB #

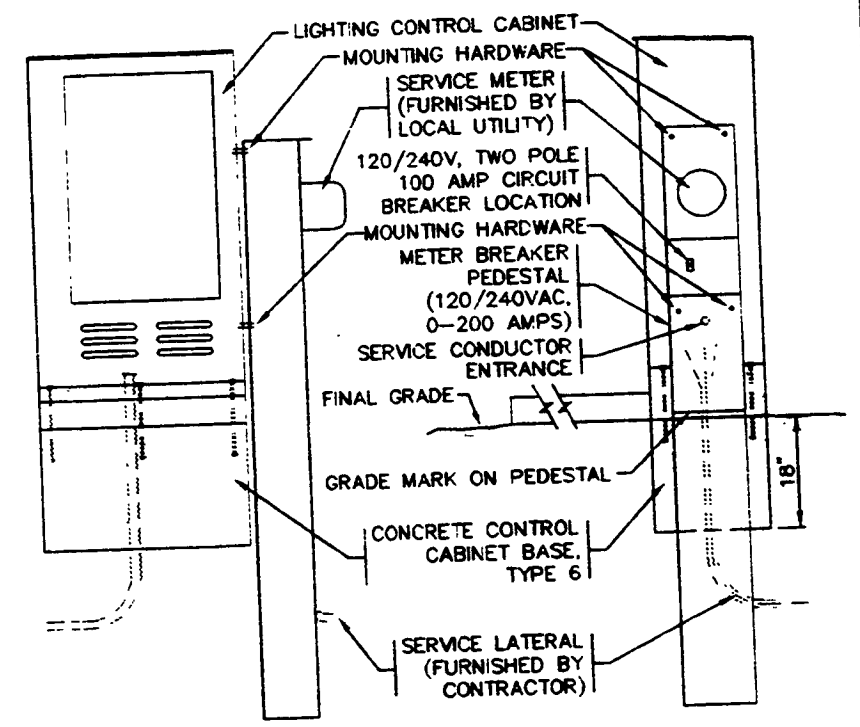
STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.40
ELECTRICAL/LIGHTING DETAILS	
TOWER AVENUE, CITY OF SUPERIOR	
S.T.H. 35 DOUGLAS COUNTY	

GENERAL NOTES:
 DETAILS OF CONSTRUCTION
 MATERIALS AND WORKMANSHIP
 NOT SHOWN ON THIS DRAWING
 SHALL CONFORM TO THE PERTINENT
 REQUIREMENTS OF THE CONTRACT.

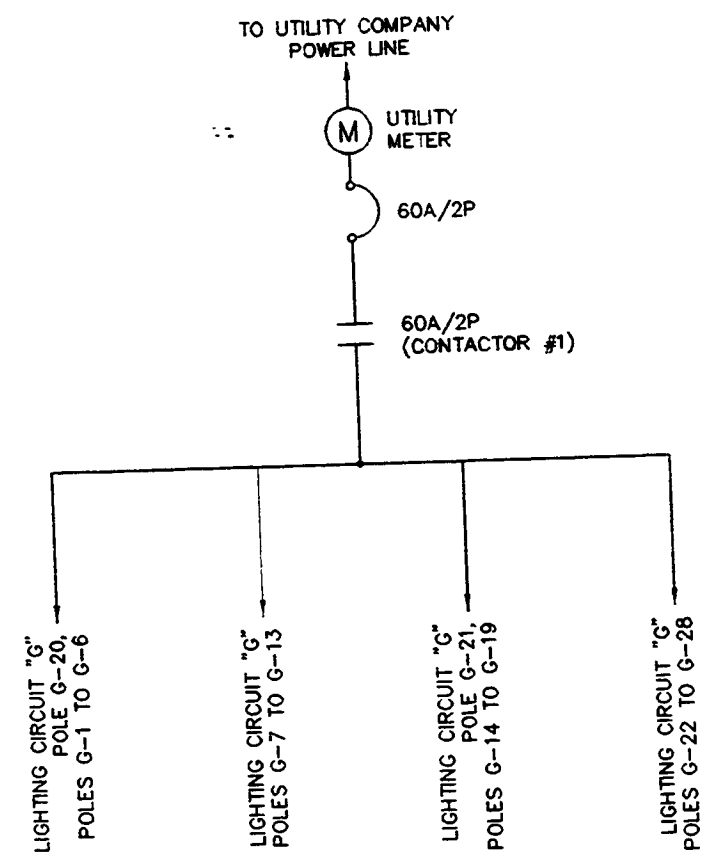


- NOTES:
1. CONNECT LUMINAIRES/FESTOON RECEPTACLES ON ALTERNATE PHASES TO BALANCE LOAD.
 2. NEUTRAL CONDUCTOR TO RUN FROM SYSTEM NEUTRAL TO FESTOON RECEPTACLE & LUMINAIRE WITHOUT SPLICE.

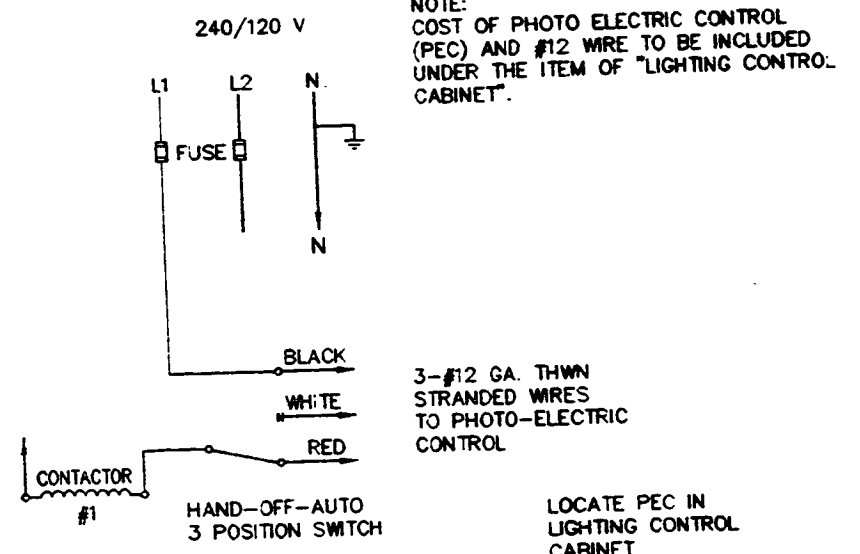
TYPICAL LUMINAIRE/FESTOON RECEPTACLE WIRING DIAGRAM
 120/240V, 1Ø, 3W SERVICE



ELECTRICAL SERVICE LIGHTING, STA. 501+81 TOWER AVENUE 65.0' RT.

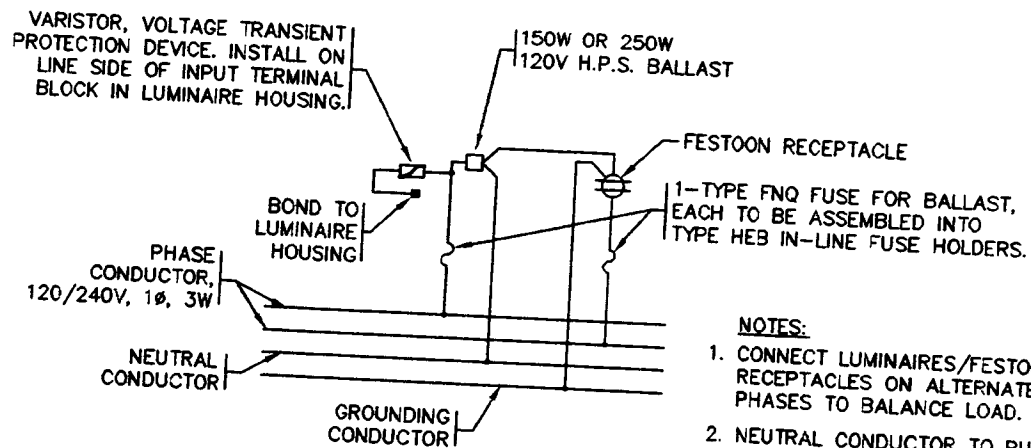


POWER ONE-LINE DIAGRAM - 120/240V, 1Ø 3 WIRE
 LIGHTING CONTROL CABINET NO. 2



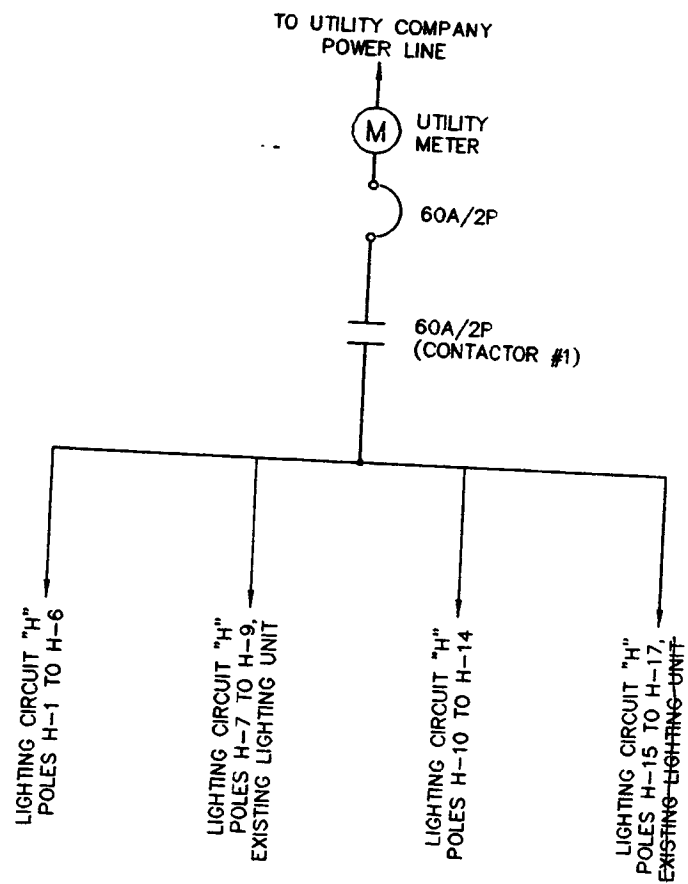
CONTROL WIRING SCHEMATIC
 LIGHTING CONTROL CABINET NO. 2

DATE: OCTOBER 24, 1995
 REVISED:
 HVP JOB #02207
 SHEET NO. 2
 HVP DRAWING #024
 SCALE: 1/8"=1'-0"



- NOTES:**
1. CONNECT LUMINAIRES/FESTOON RECEPTACLES ON ALTERNATE PHASES TO BALANCE LOAD.
 2. NEUTRAL CONDUCTOR TO RUN FROM SYSTEM NEUTRAL TO FESTOON RECEPTACLE & LUMINAIRE WITHOUT SPLICE.

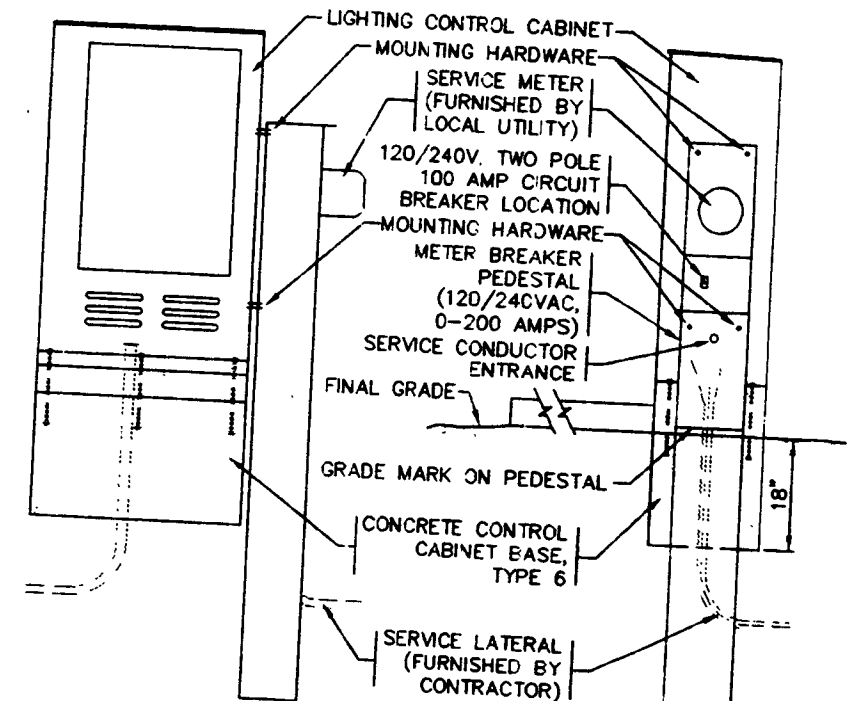
TYPICAL LUMINAIRE/FESTOON RECEPTACLE WIRING DIAGRAM
120/240V, 1 ϕ , 3W SERVICE



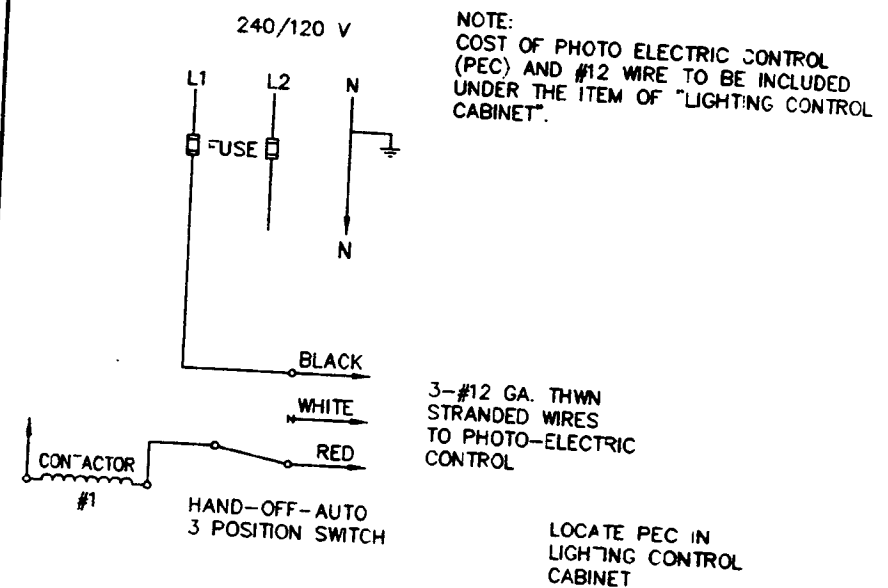
POWER ONE LINE DIAGRAM - 120/240V, 1 ϕ , 3 WIRE
LIGHTING CONTROL CABINET NO. 3

GENERAL NOTES:
DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.41
ELECTRICAL/LIGHTING DETAILS	
TOWER AVENUE, CITY OF SUPERIOR	
S.T.H. 35 DOUGLAS COUNTY	



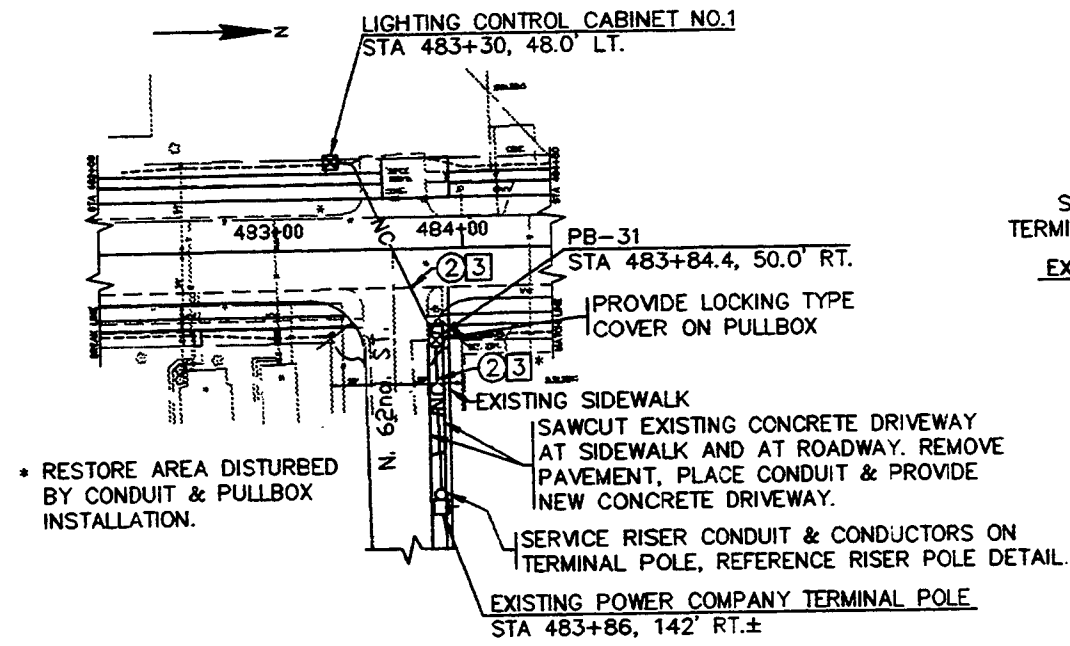
ELECTRICAL SERVICE, LIGHTING, STA. 521+00 TOWER AVENUE 68.0' LT.



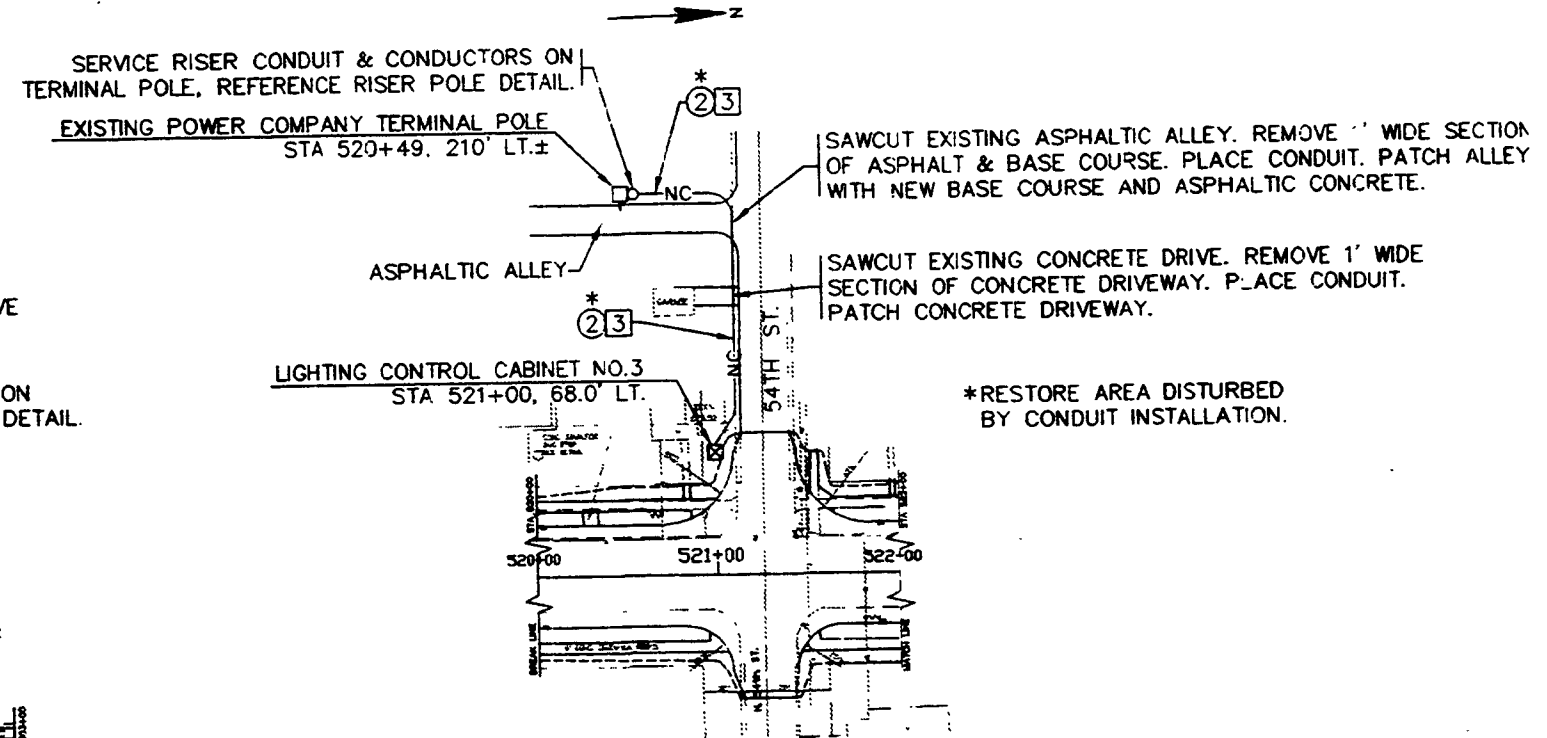
CONTROL WIRING SCHEMATIC
LIGHTING CONTROL CABINET NO. 3

DATE: OCTOBER 24, 1985
REVISED:
HVP JOB #02207
SCALE: 1/8"=1'-0"
HVP DRAWING #025

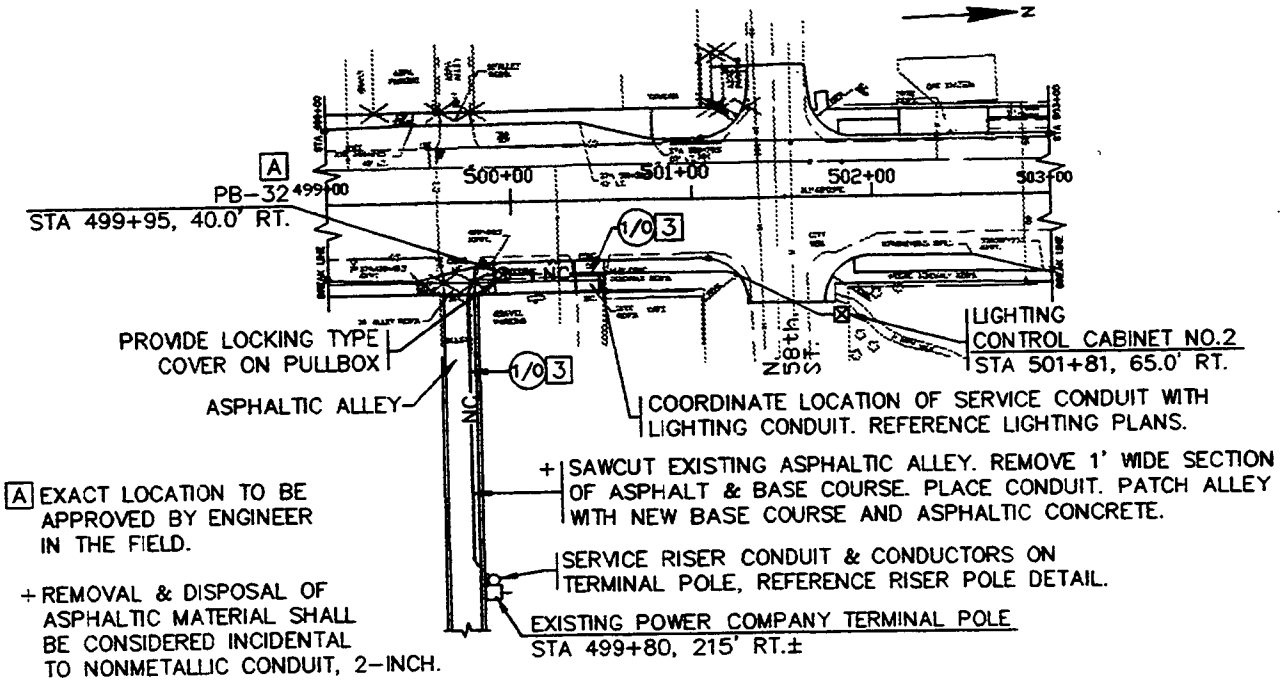
STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.42
LIGHTING SERVICE PLAN TOWER AVENUE, CITY OF SUPERIOR S.T.H. 35 DOUGLAS COUNTY	



ELECTRICAL SERVICE PLAN
LIGHTING CONTROL CABINET NO. 1



ELECTRICAL SERVICE PLAN
LIGHTING CONTROL CABINET NO. 3



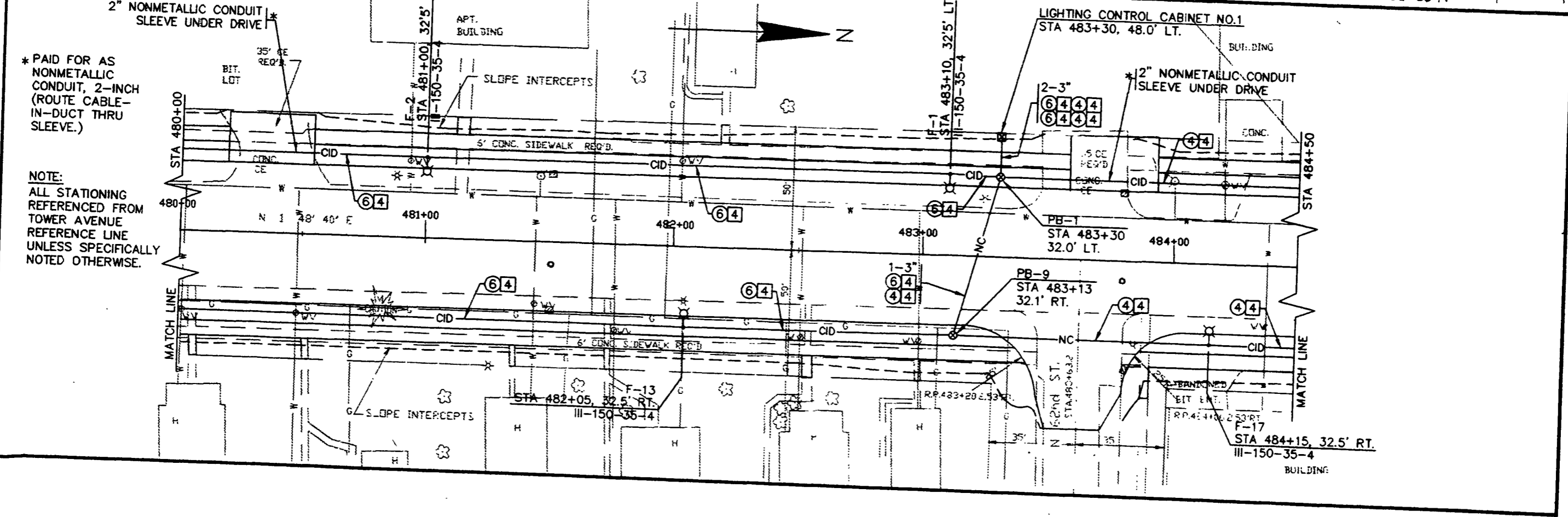
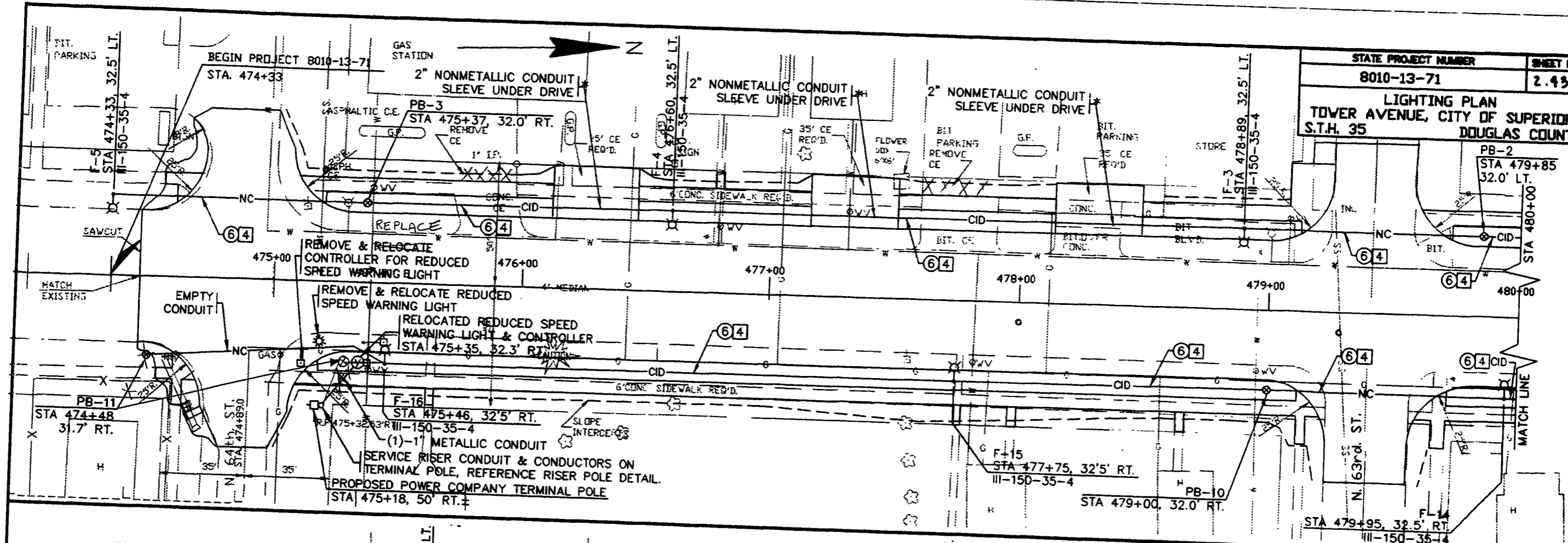
ELECTRICAL SERVICE PLAN
LIGHTING CONTROL CABINET NO. 2

[A] EXACT LOCATION TO BE APPROVED BY ENGINEER IN THE FIELD.

+ REMOVAL & DISPOSAL OF ASPHALTIC MATERIAL SHALL BE CONSIDERED INCIDENTAL TO NONMETALLIC CONDUIT, 2-INCH.

DATE: OCTOBER 24, 1985
 HVP DRAWING #R16
 SCALE: 1"=50'-0"
 HVP JOB #02207
 SH JOB #
 REVISED:

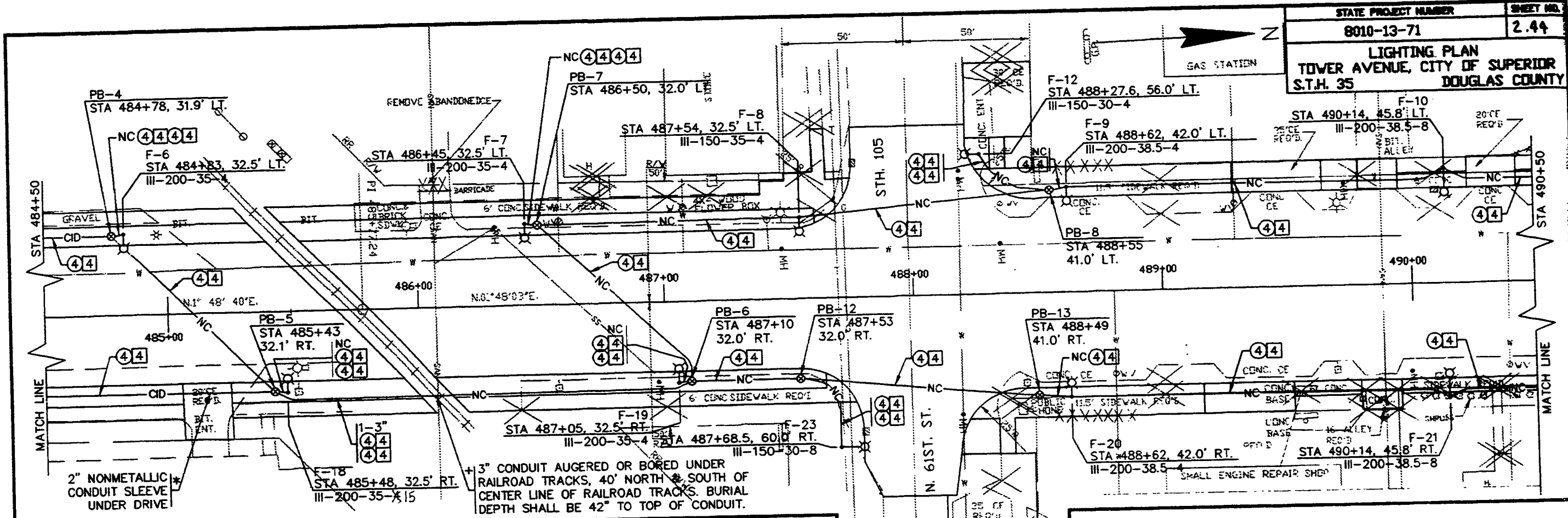
STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.45
LIGHTING PLAN TOWER AVENUE, CITY OF SUPERIOR S.T.H. 35 DOUGLAS COUNTY	



* PAID FOR AS
NONMETALLIC
CONDUIT, 2-INCH
(ROUTE CABLE-
IN-DUCT THRU
SLEEVE.)

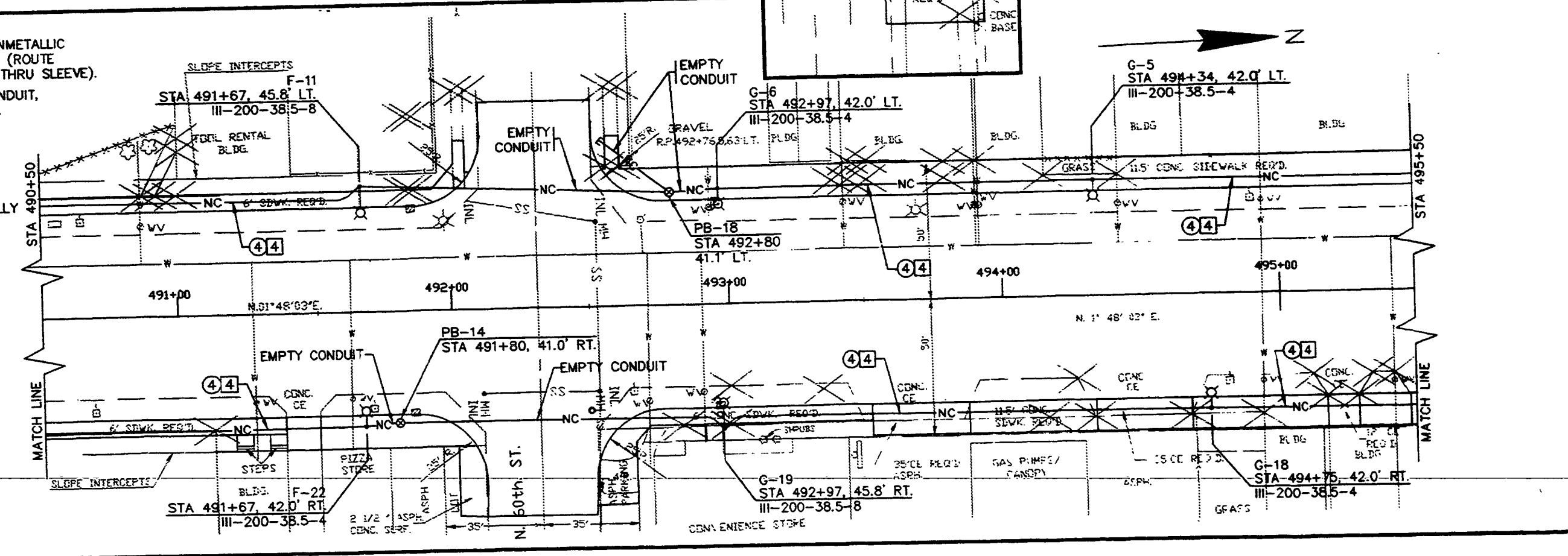
NOTE:
ALL STATIONING
REFERENCED FROM
TOWER AVENUE
REFERENCE LINE
UNLESS SPECIFICALLY
NOTED OTHERWISE.

DATE: OCTOBER 24, 1995
HVP DRAWING #10
SCALE: 1"=20'-0"
HVP JOB #22207
SEN JOB #



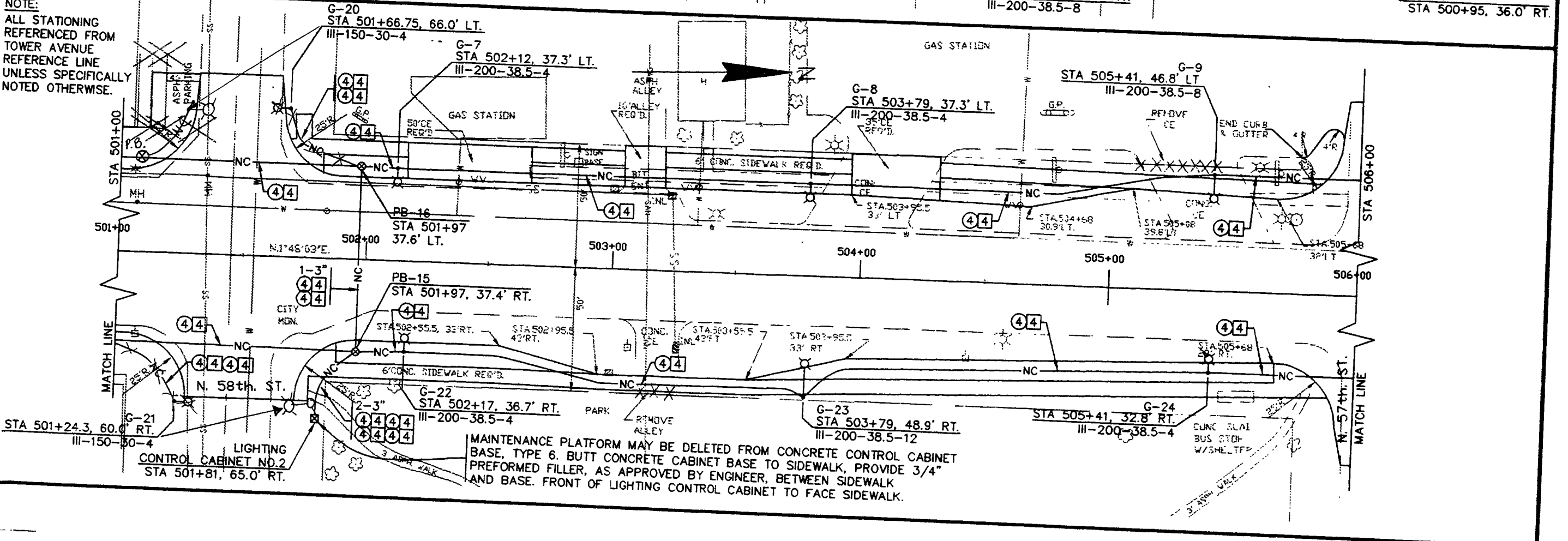
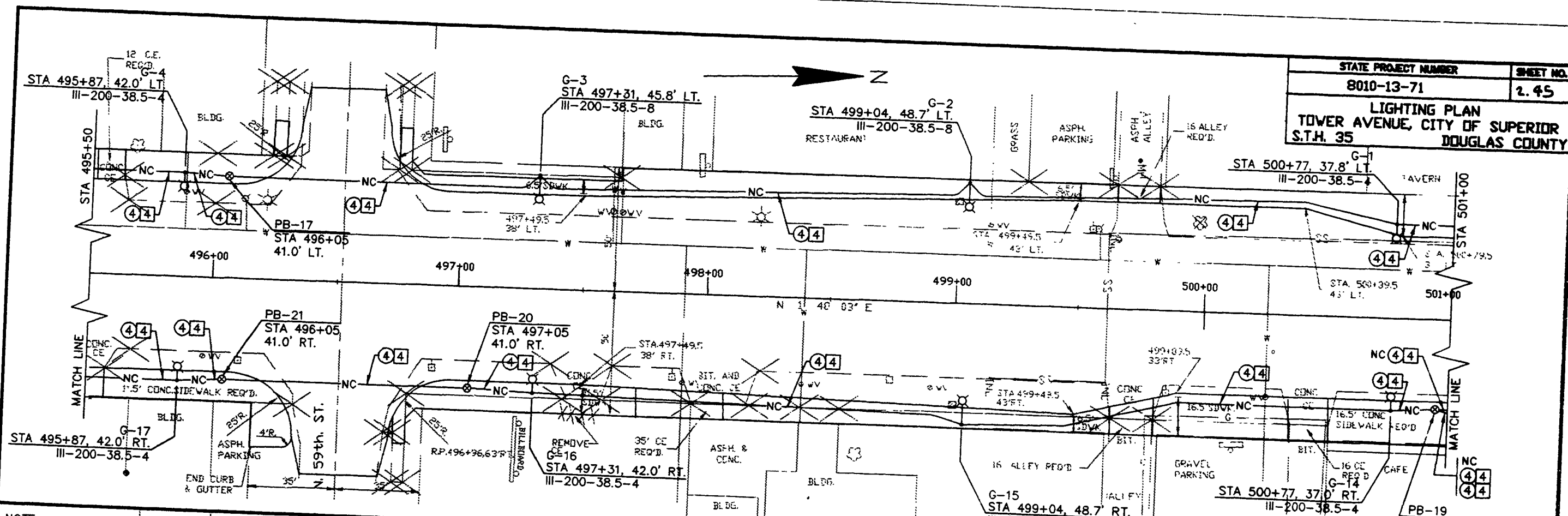
* PAID FOR AS NONMETALLIC CONDUIT, 2-INCH (ROUTE CABLE-IN-DUCT THRU SLEEVE).
 + PAID FOR AS CONDUIT, 3-INCH, SPECIAL.

NOTE:
 ALL STATIONING REFERENCED FROM TOWER AVENUE REFERENCE LINE UNLESS SPECIFICALLY NOTED OTHERWISE.



DATE: OCTOBER 24, 1995
 HVP DRAWING #111
 SCALE: 1"=20'-0"
 HVP JOB #22207
 SHEET NO.

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.45
LIGHTING PLAN TOWER AVENUE, CITY OF SUPERIOR DOUGLAS COUNTY	

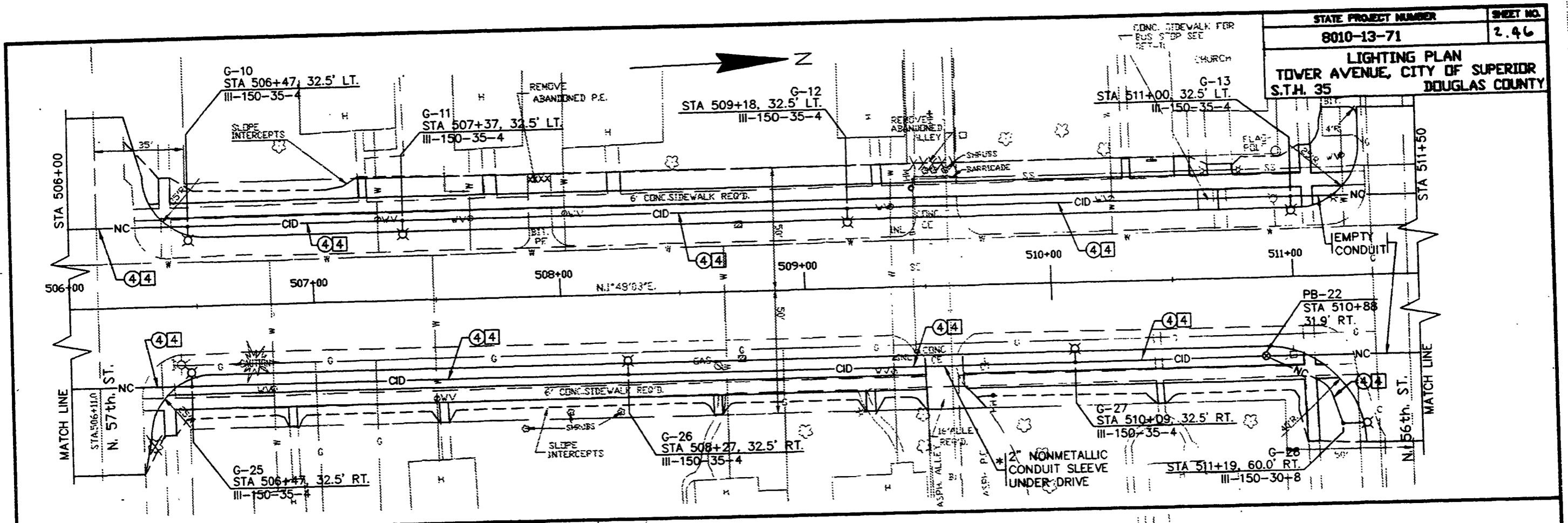


NOTE:
ALL STATIONING
REFERENCED FROM
TOWER AVENUE
REFERENCE LINE
UNLESS SPECIFICALLY
NOTED OTHERWISE.

MAINTENANCE PLATFORM MAY BE DELETED FROM CONCRETE CONTROL CABINET
BASE, TYPE 6. BUTT CONCRETE CABINET BASE TO SIDEWALK, PROVIDE 3/4"
PREFORMED FILLER, AS APPROVED BY ENGINEER, BETWEEN SIDEWALK
AND BASE. FRONT OF LIGHTING CONTROL CABINET TO FACE SIDEWALK.

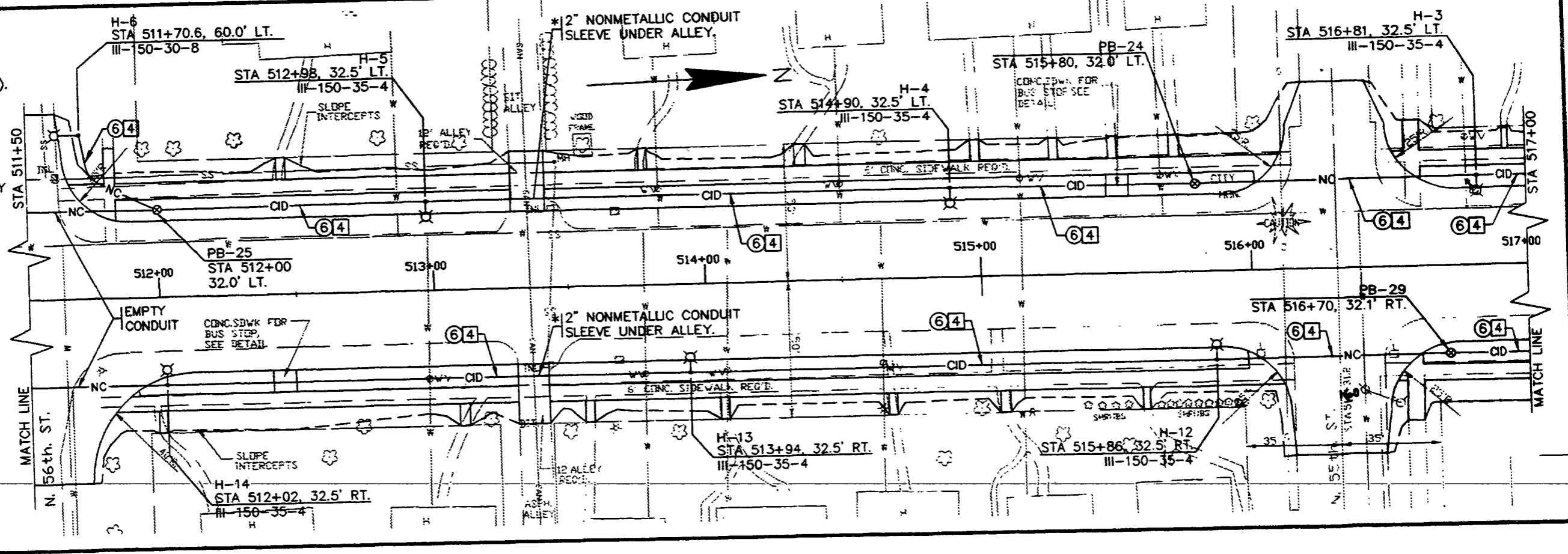
DATE: OCTOBER 24, 1995
REVISED:
HWP DRAWING #12
SCALE: 1"=20'-0"
HWP JOB #02207
SEI JOB #

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.46
LIGHTING PLAN TOWER AVENUE, CITY OF SUPERIOR S.T.H. 35 DOUGLAS COUNTY	



* PAID FOR AS NONMETALLIC CONDUIT, 2-INCH (ROUTE CABLE-IN-DUCT THRU SLEEVE).

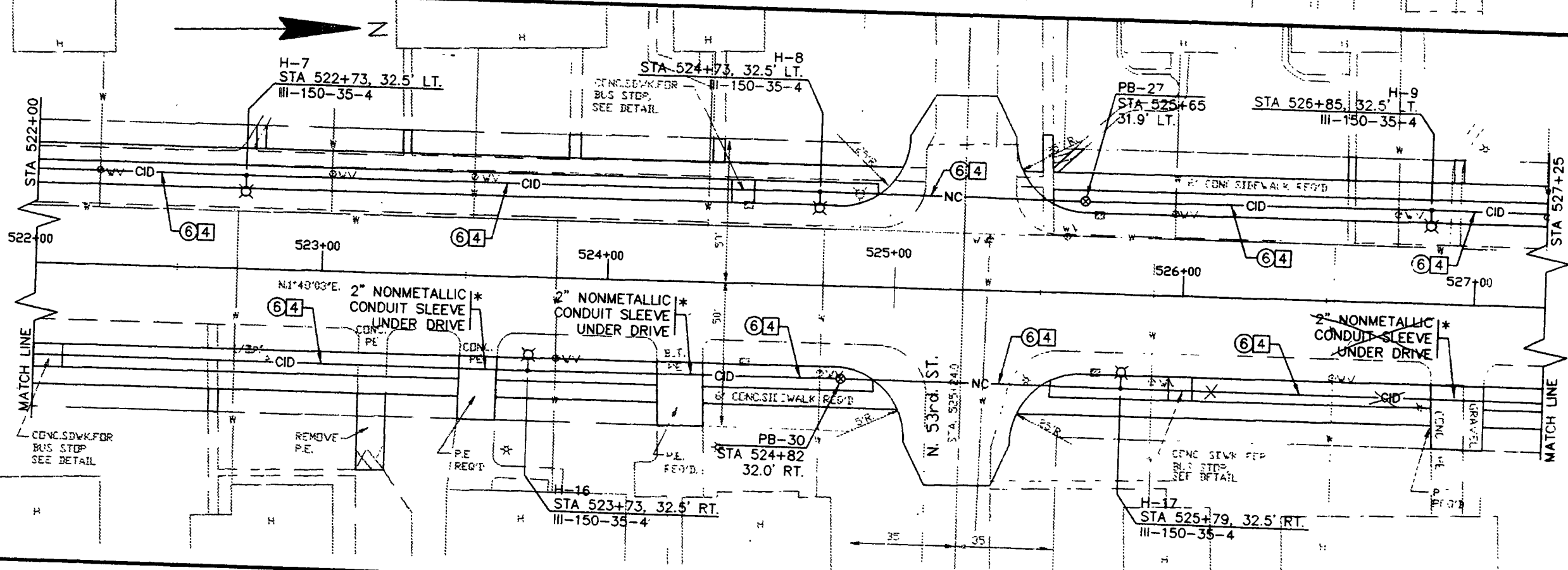
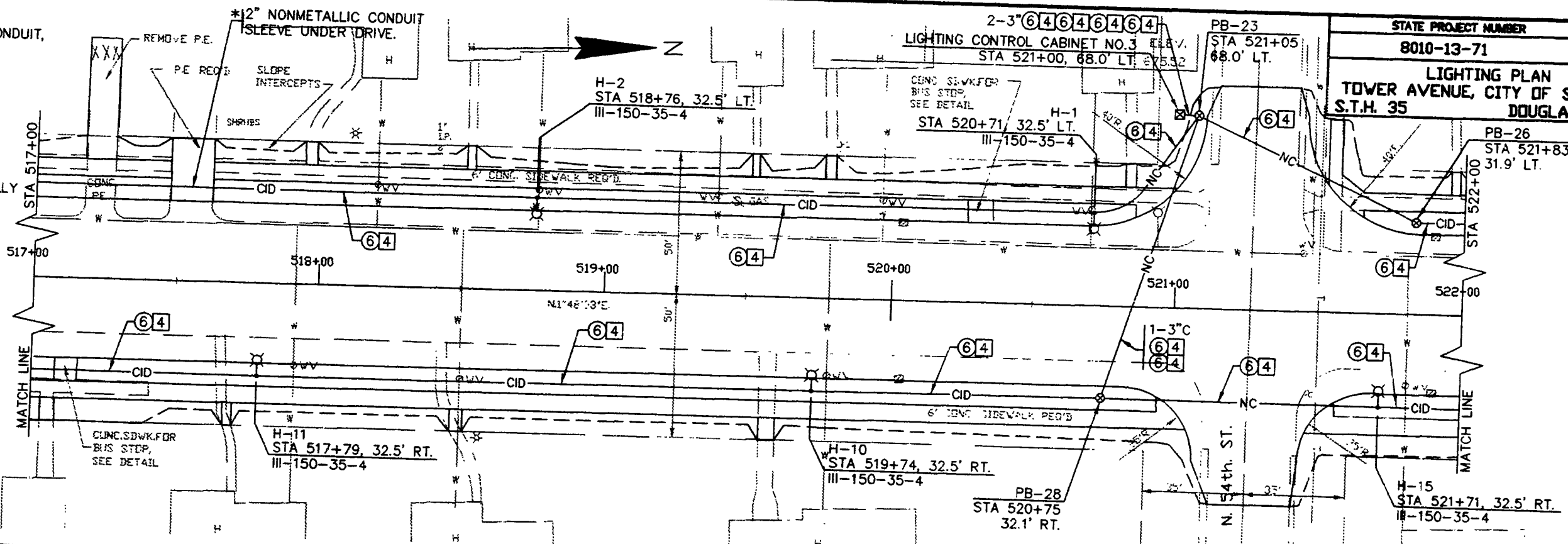
NOTE:
ALL STATIONING REFERENCED FROM TOWER AVENUE REFERENCE LINE UNLESS SPECIFICALLY NOTED OTHERWISE.



DATE: OCTOBER 24, 1985
 HVP DRAWING #13
 HVP JOB #2207
 SDI JOB #
 SCALE: 1"=20'-0"

* PAID FOR AS
NONMETALLIC CONDUIT,
2-INCH (ROUTE
CABLE-IN-DUCT
THRU SLEEVE)

NOTE:
ALL STATIONING
REFERENCED FROM
TOWER AVENUE
REFERENCE LINE
UNLESS SPECIFICALLY
NOTED OTHERWISE.



DATE: OCTOBER 24, 1995
REVISED:
HWP DRAWING #R14
HWP JOB #22207
SEN JOB #

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.48
LIGHTING PLAN TOWER AVENUE, CITY OF SUPERIOR S.T.H. 35 DOUGLAS COUNTY	

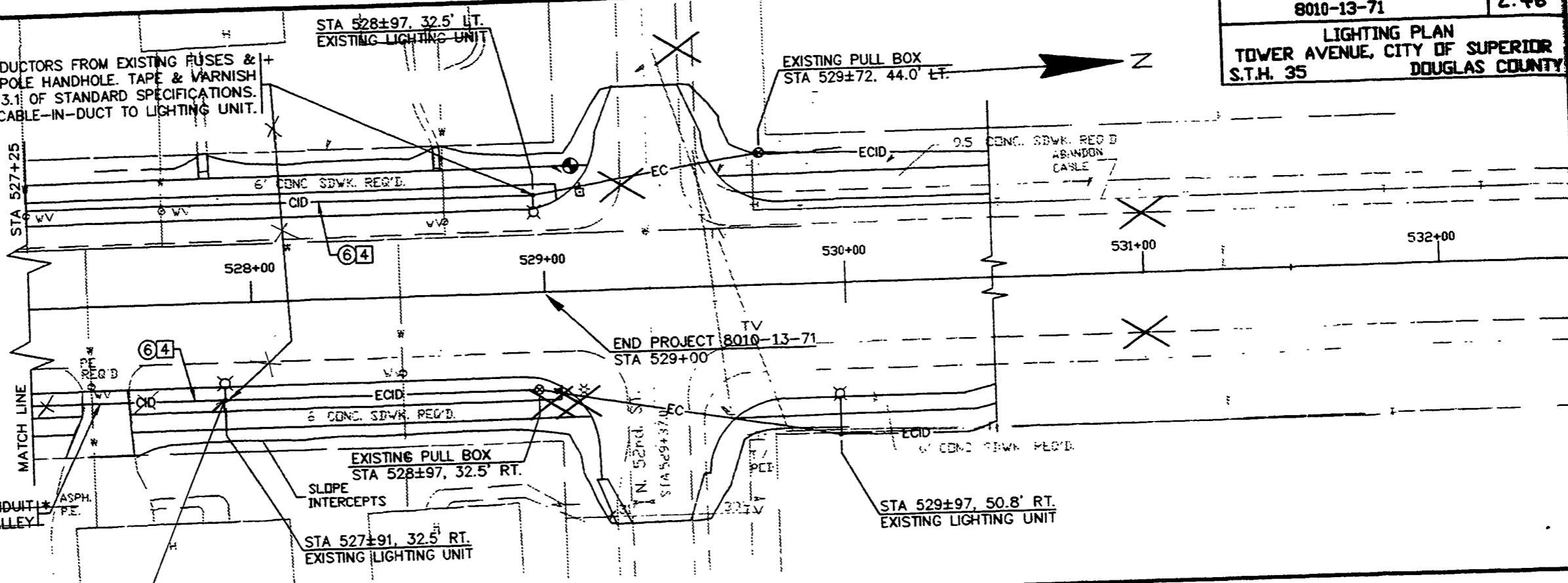
DISCONNECT EXISTING CONDUCTORS FROM EXISTING FUSES & NEUTRAL CONNECTION IN POLE HANDHOLE. TAPE & VARNISH EXISTING CONDUCTORS PER 640.3.1 OF STANDARD SPECIFICATIONS. CONNECT NEW CABLE-IN-DUCT TO LIGHTING UNIT.

* PAID FOR AS NONMETALLIC CONDUIT, 2-INCH (ROUTE CABLE-IN-DUCT THRU SLEEVE).

+ WORK SHALL BE INCIDENTAL TO CABLE-IN-DUCT, 4 CONDUCTOR, NO. 6.

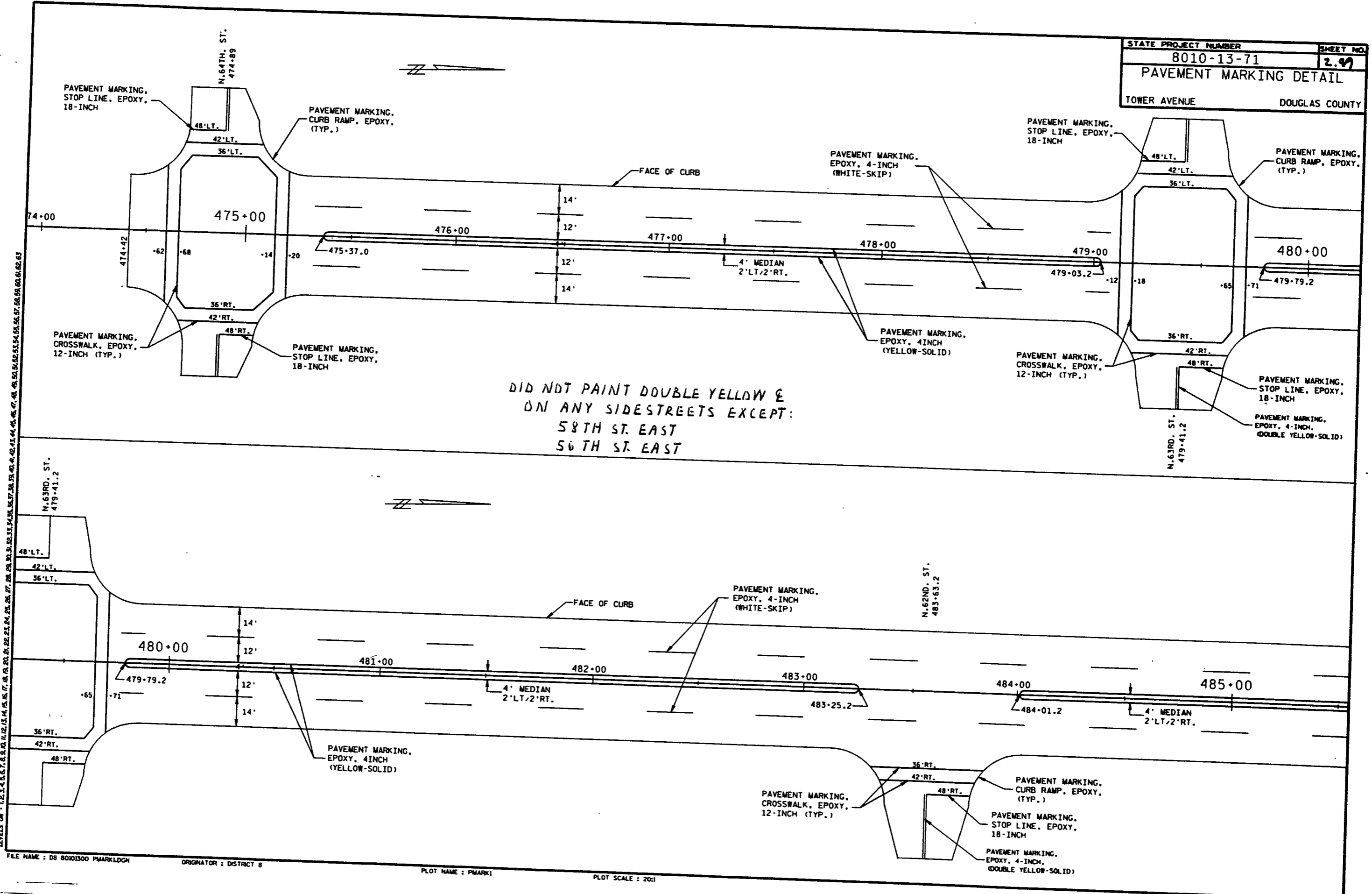
NOTE:
ALL STATIONING REFERENCED FROM TOWER AVENUE REFERENCE LINE UNLESS SPECIFICALLY NOTED OTHERWISE.

2" NONMETALLIC CONDUIT SLEEVE UNDER ALLEY



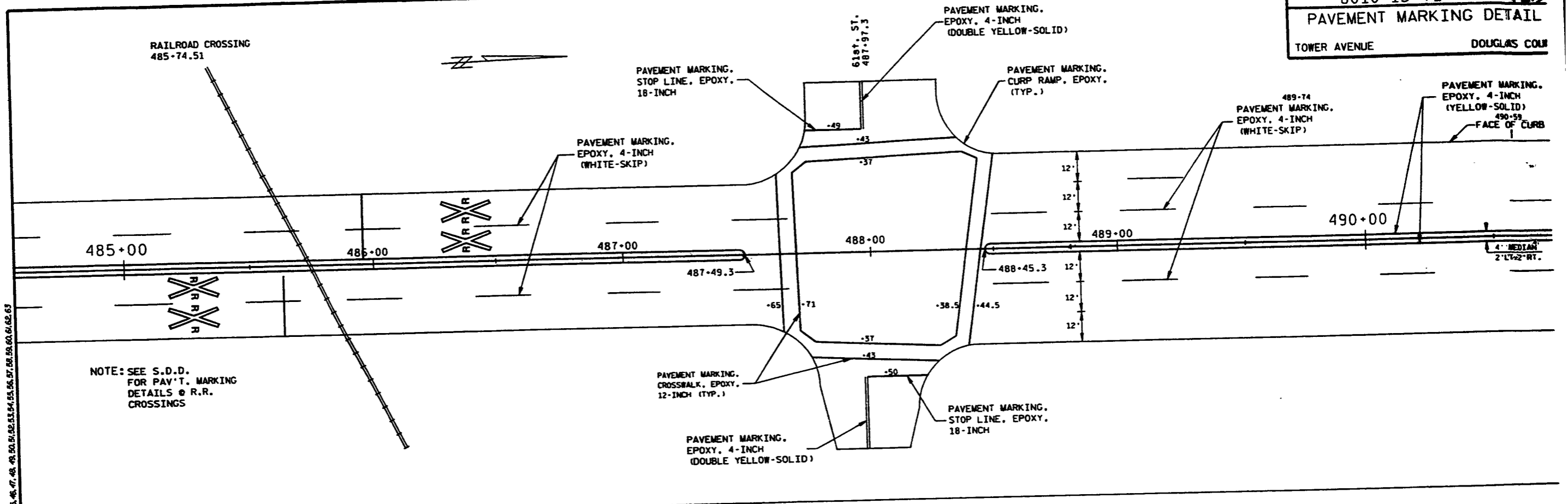
EXISTING LIGHT WAS LEFT CONNECTED TO EXISTING CABINET AT ≈ 50th.

DATE: OCTOBER 24, 1985
 HVP JOB #92207
 HVP DRAWING #15
 SCALE: 1"=20'-0"
 REVISED:

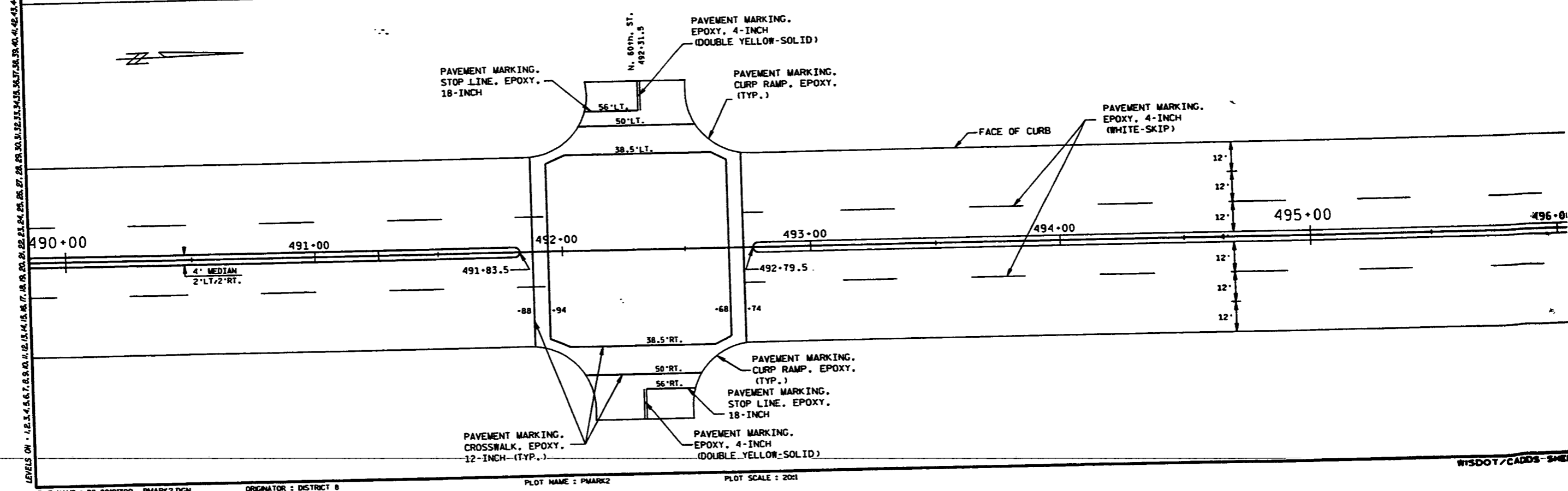


DID NOT PAINT DOUBLE YELLOW &
ON ANY SIDESTREETS EXCEPT:
58TH ST. EAST
56TH ST. EAST

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

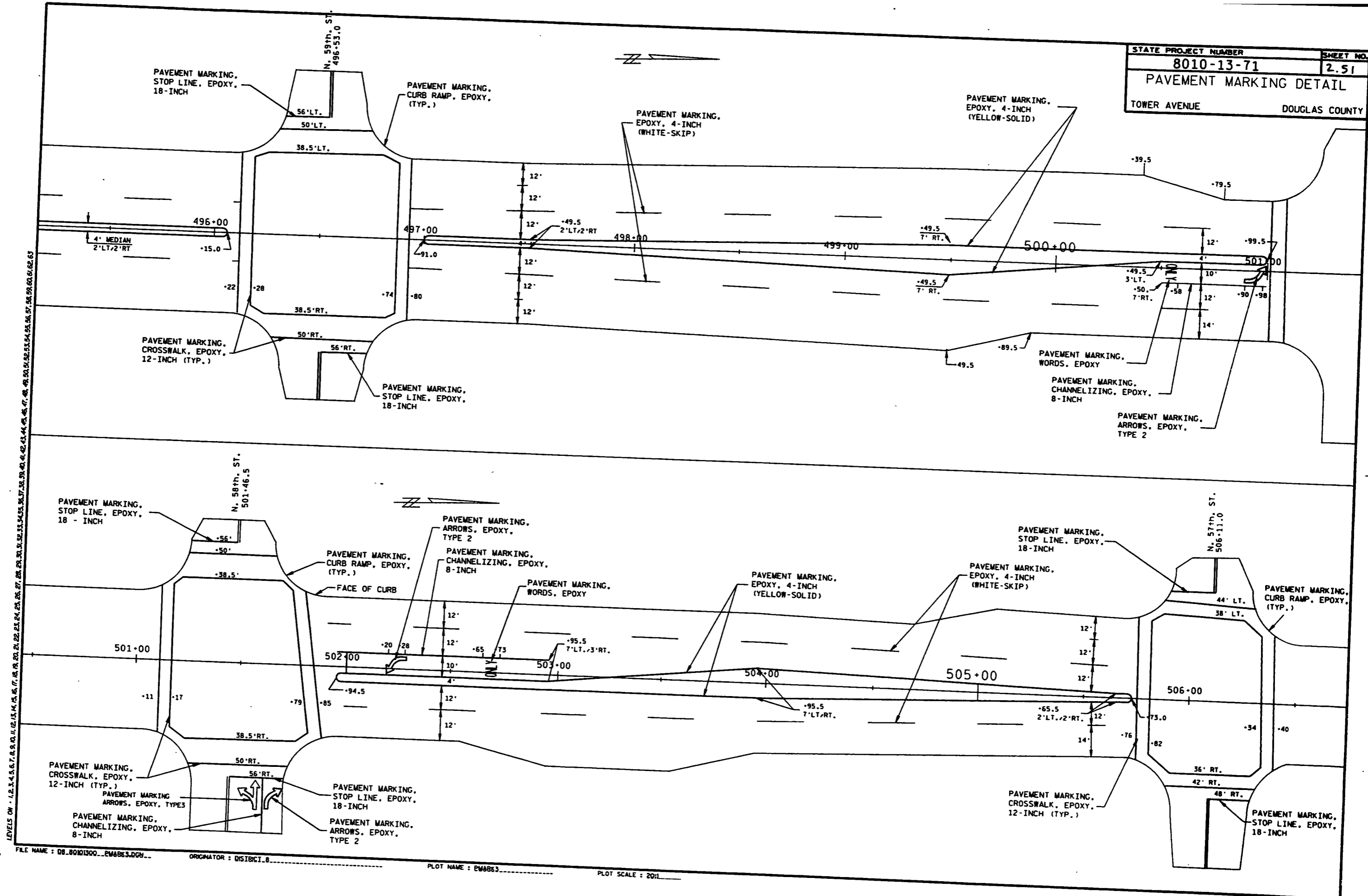


NOTE: SEE S.D.D. FOR PAV'T. MARKING DETAILS @ R.R. CROSSINGS



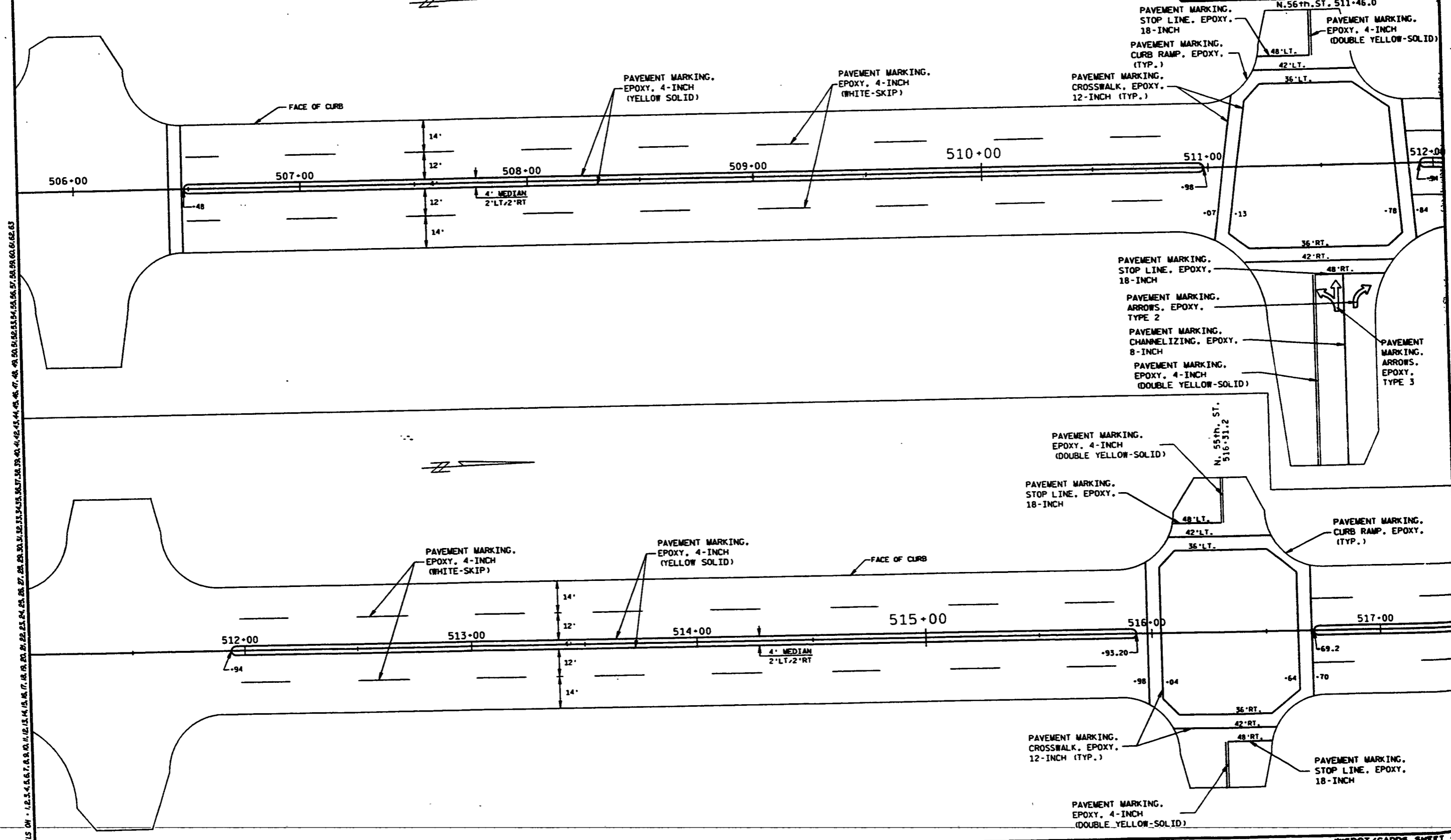
LEVELS ON - 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.51
PAVEMENT MARKING DETAIL	
TOWER AVENUE	DOUGLAS COUNTY



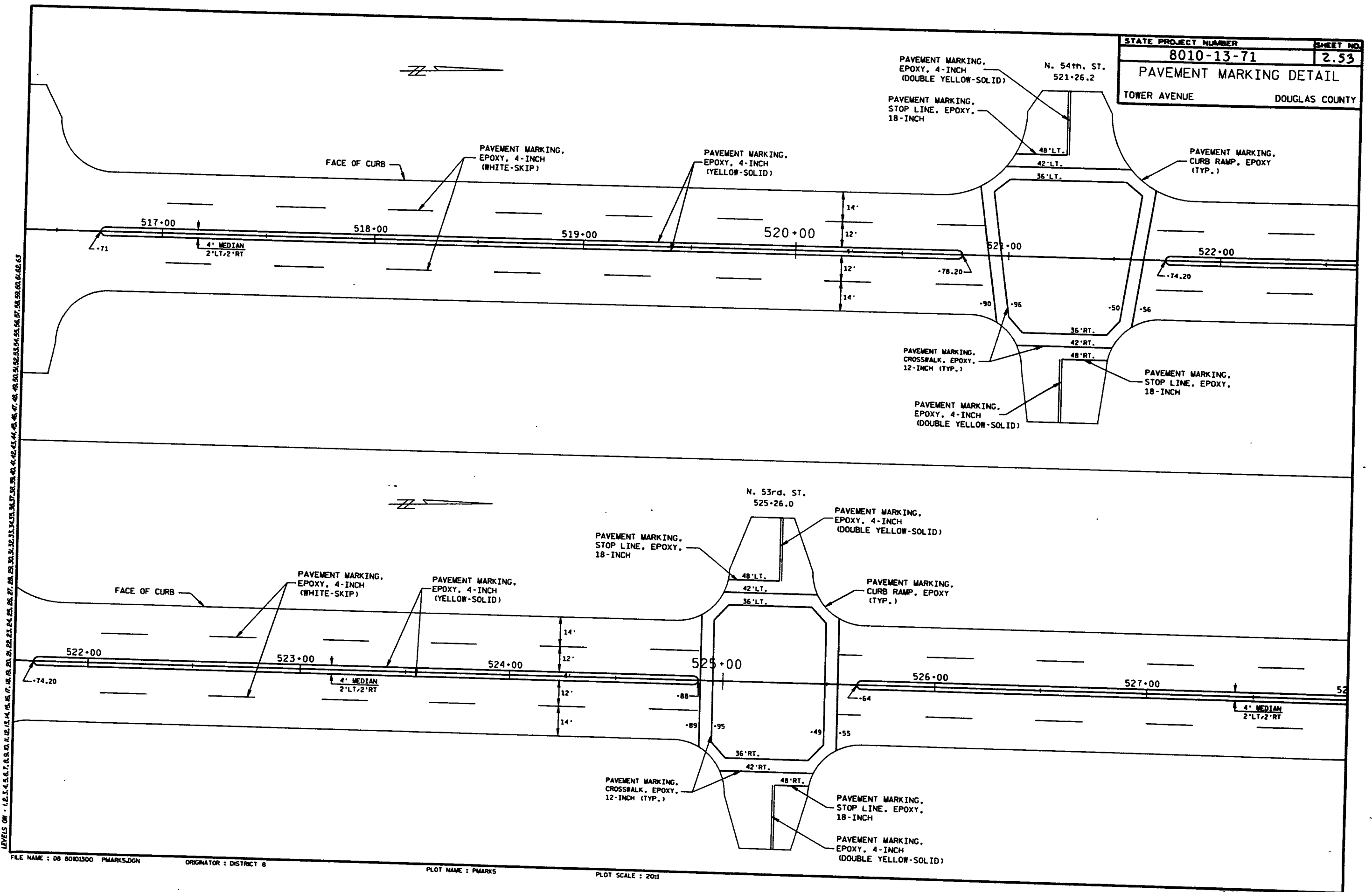
LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

FILE NAME : 08_80101300_P04863.DWG... ORIGINATOR : DISIBCT.8 PLOT NAME : P04863 PLOT SCALE : 20:1



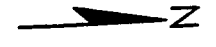
LEVELS ON - 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3

STATE PROJECT NUMBER	SHEET NO.
8010-13-71	2.53
PAVEMENT MARKING DETAIL	
TOWER AVENUE	DOUGLAS COUNTY

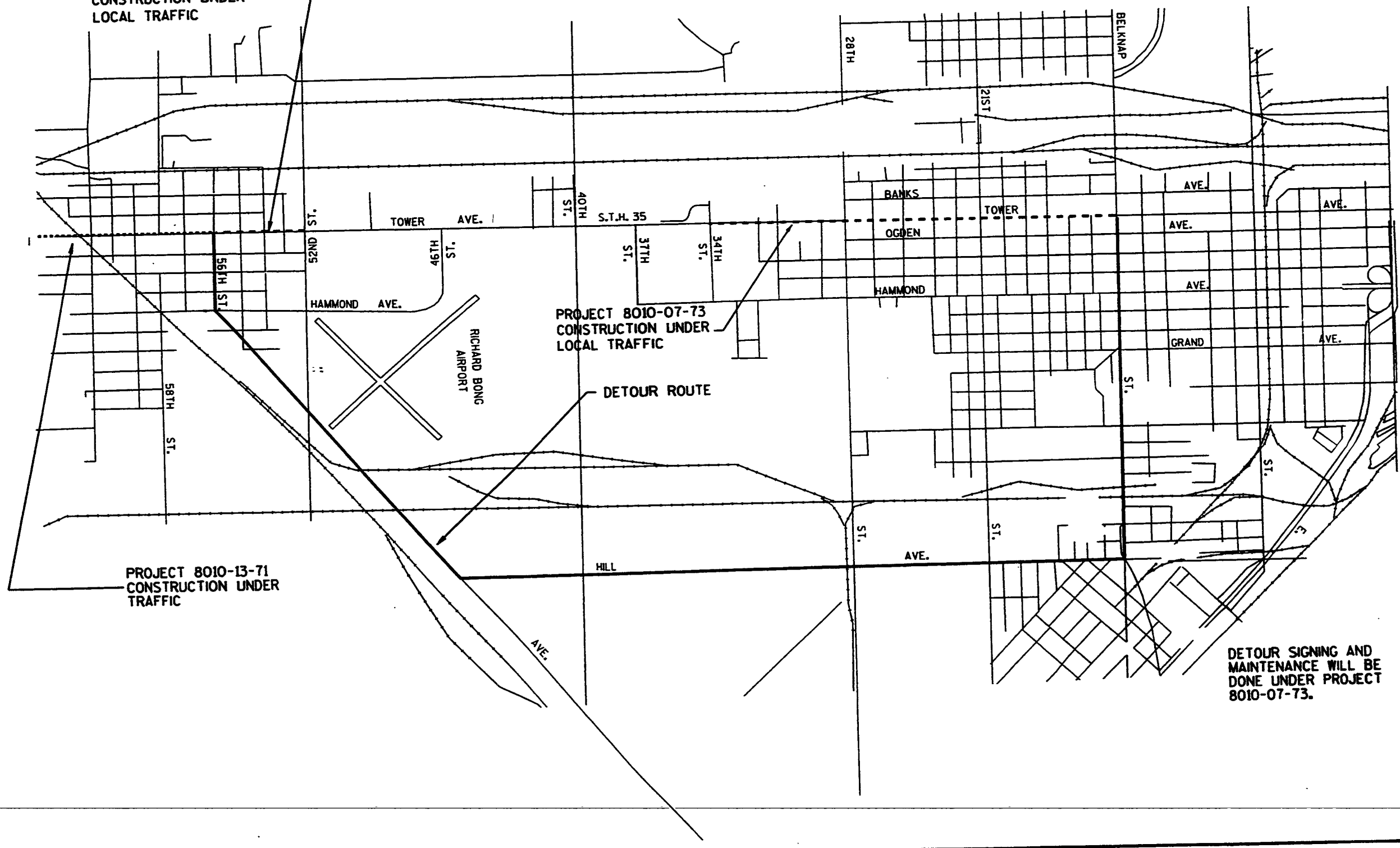


LEVELS ON - 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63

FILE NAME : D8 80101300 PMARK5.DGN ORIGINATOR : DISTRICT 8 PLOT NAME : PMARKS PLOT SCALE : 20:1



PROJECT 8010-13-71
CONSTRUCTION UNDER
LOCAL TRAFFIC



PROJECT 8010-07-73
CONSTRUCTION UNDER
LOCAL TRAFFIC

DETOUR ROUTE

PROJECT 8010-13-71
CONSTRUCTION UNDER
TRAFFIC

DETOUR SIGNING AND
MAINTENANCE WILL BE
DONE UNDER PROJECT
8010-07-73.

LEVELS ON -12,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

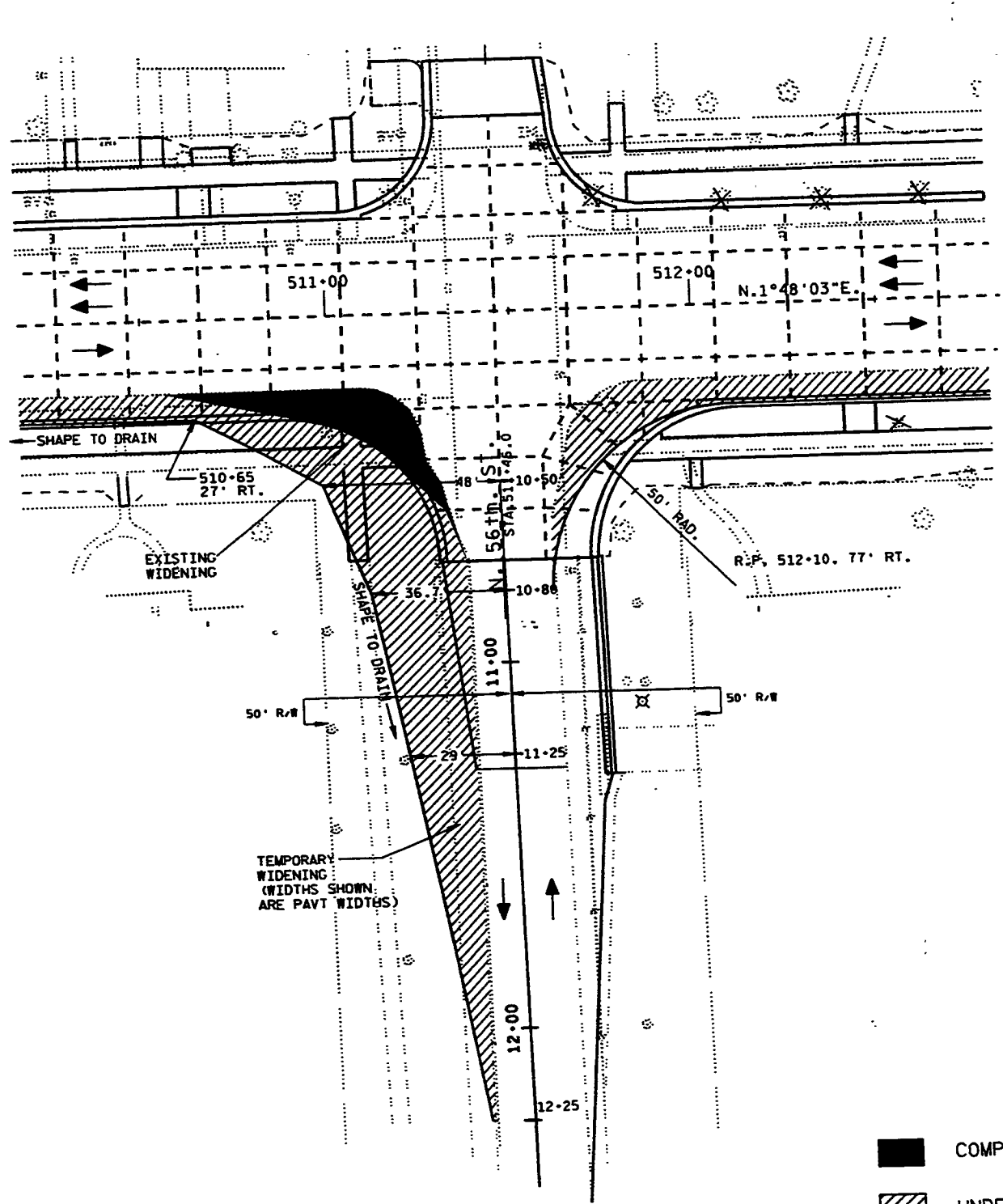
BILL OF MATERIALS																													
ESTIMATE OF QUANTITIES FOR TRAFFIC CONTROL (QUANTITIES ARE BY EACH UNLESS NOTED OTHERWISE)																													
MESSAGE	SIGN CODE	SIGN SIZE	NO. REQ'D.			MESSAGE	SIGN CODE	SIGN SIZE	NO. REQ'D.			MESSAGE	SIGN CODE	SIGN SIZE	NO. REQ'D.														
			PHASE I	PHASE II	PHASE III				PHASE I	PHASE II	PHASE III				PHASE I	PHASE II	PHASE III												
	W20-3	48" X 48"	3	9	8	ROAD CLOSED	R11-2	48" X 30"	8	15	18		TYPE III BARRICADE				35	75	75		R5-1	30" X 30"						1	
	W012-52	48" X 48"	0	4	0	END ROAD WORK	G20-2A	48" X 24"	2	2	2	2 MILES AHEAD	W057-52	36" X 24"	0	1	1					R3-2	24" X 24"					1	
	W20-5	48" X 48"	1	1	1		W01-6	48" X 24"	2	1	1	500 FT	W20-50	30" X 8"	0	2	2					R11-4	60" X 30"					1	
	W20-5	48" X 48"	2	1	1		W01-6	48" X 24"	0	2	2	300 FT	W20-50	30" X 8"	0	1	1					W4-9R	30" X 24"					1	
	W20-5	48" X 48"	0	1	1		W01-7	48" X 24"	3	5	8		RT-1	18" X 24"	6	0	0					TYPE "A" WARNING LIGHT				18	28	32	
	W20-5	48" X 48"	0	1	1		W04-2L	48" X 48"	0	1	1							16	32	22									
	W20-1	48" X 48"	7	17	17		W04-2R	48" X 48"	2	1	1							185	265	265									
	R1-1	30" X 30"	0	4	3		W012-52	48" X 48"	0	0	4		* ORANGE FLAGS					0	8	6									

GENERAL NOTES:

- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS HIGH INTENSITY ORANGE.
- ALL CONSTRUCTION SIGNS HAVE HIGH INTENSITY BACKGROUND, BLACK LEGEND AND BORDER, AND STANDARD ROUTE MARKERS.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- ADVANCED WARNINGS SIGNS LOCATED ON SIDE STREETS ARE TO BE PLACED APPROXIMATELY 300 FEET IN ADVANCE OF INTERSECTION.
- TYPE "C" WARNING LIGHTS ARE TO BE USED ON BARRELS AS INDICATED IN PLAN.
- THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- PAVEMENT MARKINGS NOT APPROPRIATE TO THE TRAVEL PATH SHALL BE REMOVED.
- ALL SIGNS INAPPROPRIATE TO THE STATION OF CONTROL ZONE, INCLUDING PREEXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.
- BARREL ARE TO BE SPACED AT 25' INTERVALS IN EITHER LANE DROP OR SHIFT TAPERS AND 50' INTERVALS ALONG TANGENT SEGMENTS.

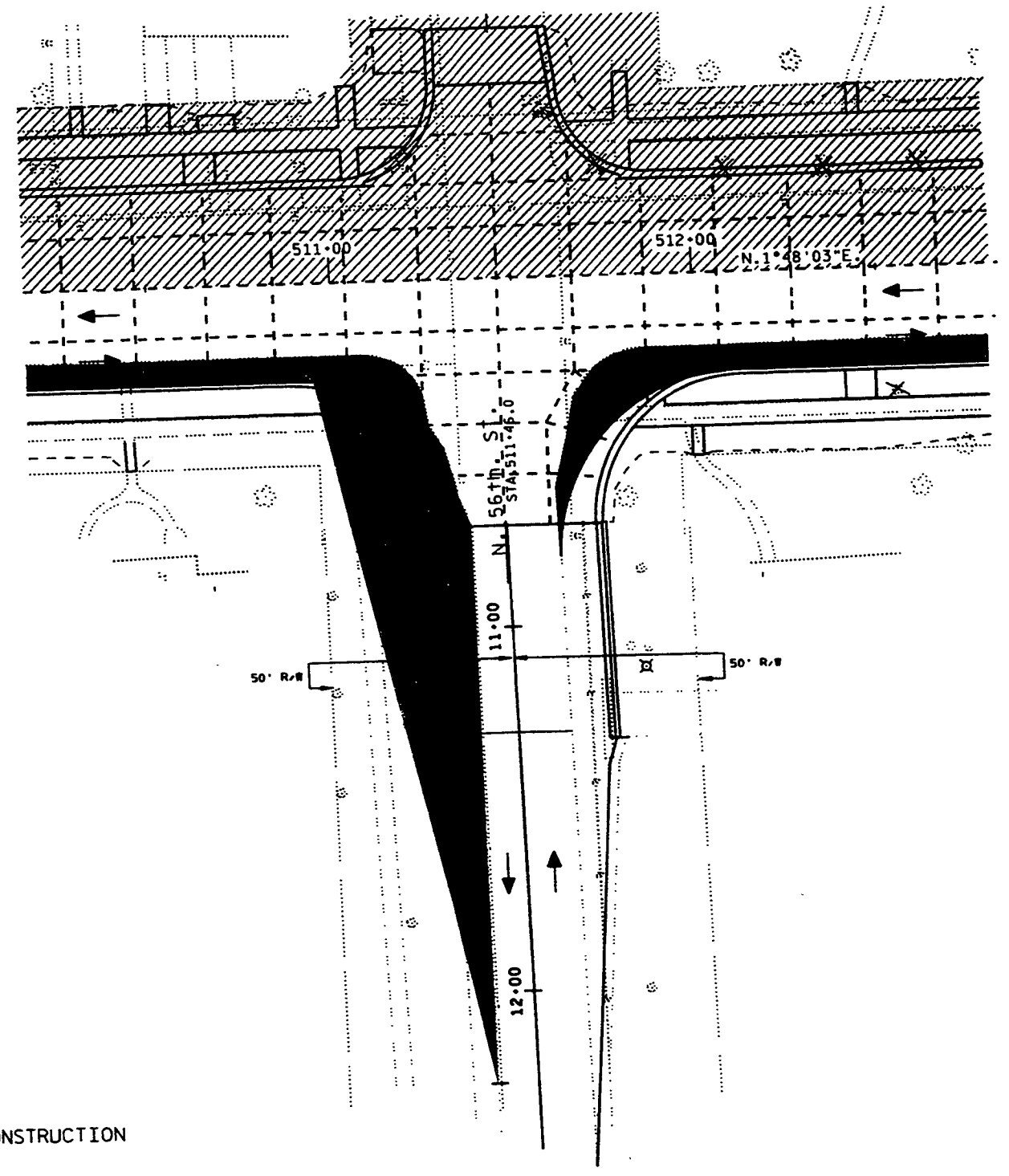
* INCIDENTAL TO SIGNS

LEVELS ON 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



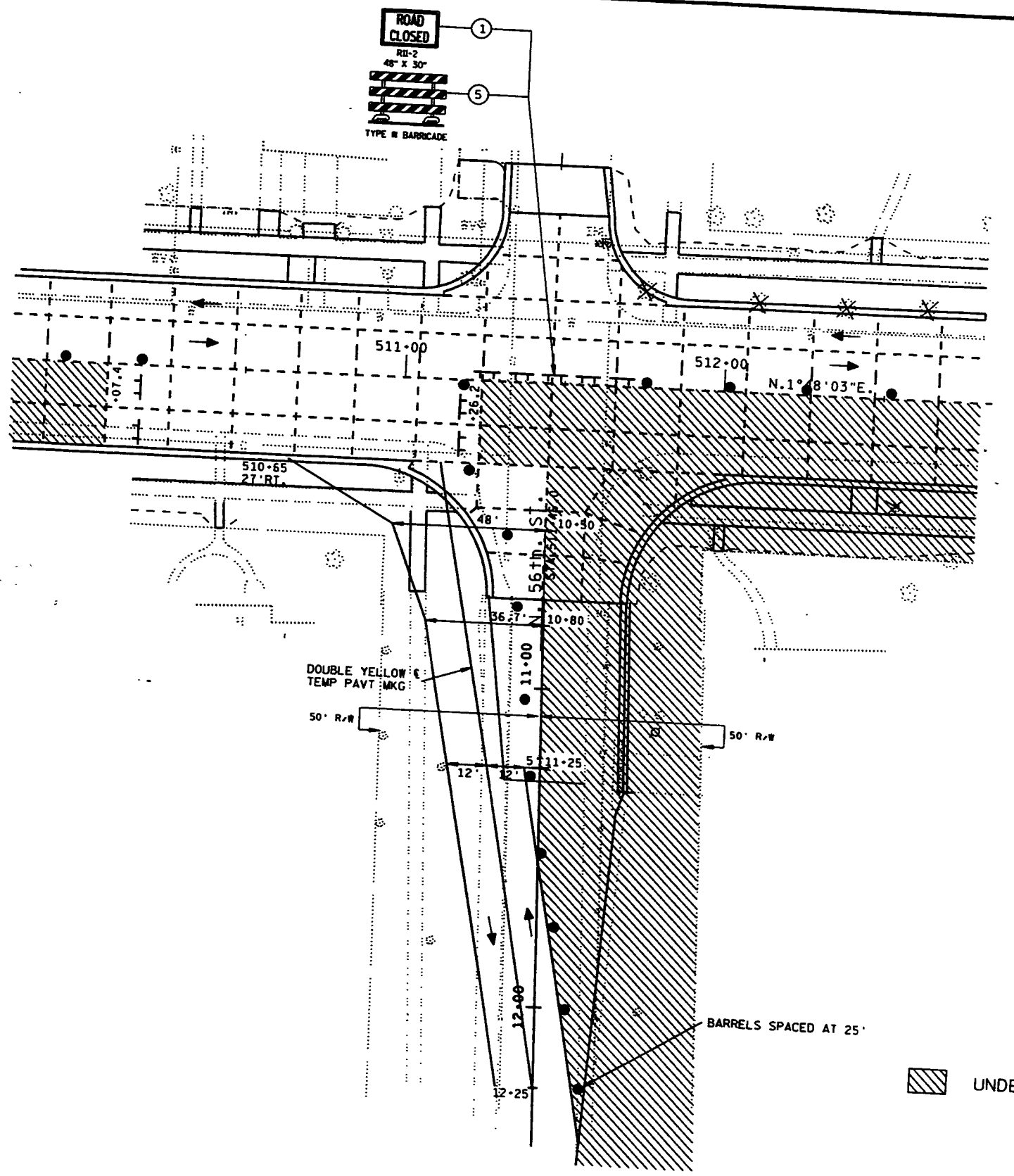
PHASE I

- COMPLETED CONSTRUCTION
- UNDER CONSTRUCTION



PHASE II

LEVELS ON - 510+00, 510+02, 510+04, 510+06, 510+08, 510+10, 510+12, 510+14, 510+16, 510+18, 510+20, 510+22, 510+24, 510+26, 510+28, 510+30, 510+32, 510+34, 510+36, 510+38, 510+40, 510+42, 510+44, 510+46, 510+48, 510+50, 510+52, 510+54, 510+56, 510+58, 510+60, 510+62, 510+64, 510+66, 510+68, 510+70, 510+72, 510+74, 510+76, 510+78, 510+80, 510+82, 510+84, 510+86, 510+88, 510+90, 510+92, 510+94, 510+96, 510+98, 511+00, 511+02, 511+04, 511+06, 511+08, 511+10, 511+12, 511+14, 511+16, 511+18, 511+20, 511+22, 511+24, 511+26, 511+28, 511+30, 511+32, 511+34, 511+36, 511+38, 511+40, 511+42, 511+44, 511+46, 511+48, 511+50, 511+52, 511+54, 511+56, 511+58, 511+60, 511+62, 511+64, 511+66, 511+68, 511+70, 511+72, 511+74, 511+76, 511+78, 511+80, 511+82, 511+84, 511+86, 511+88, 511+90, 511+92, 511+94, 511+96, 511+98, 512+00

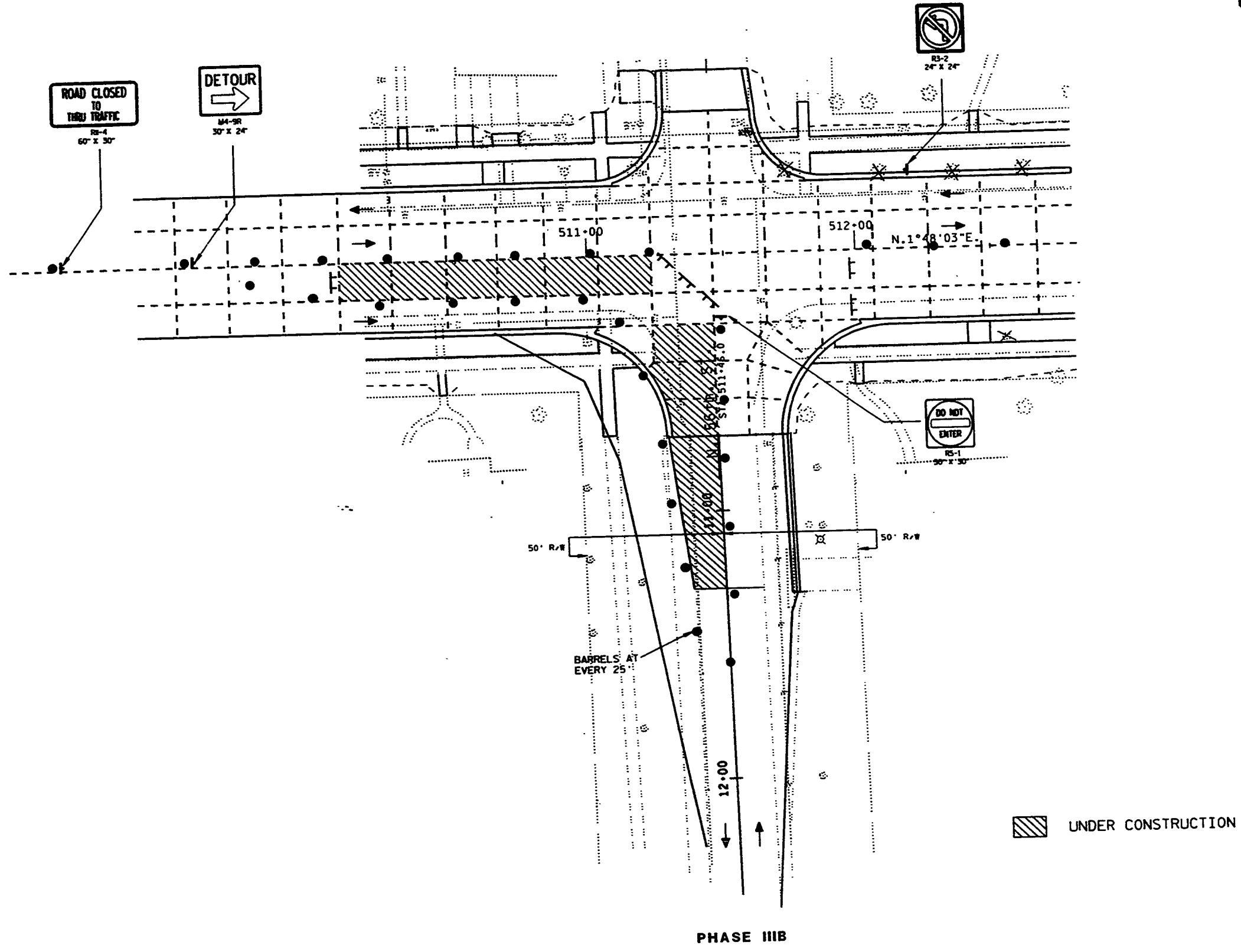


PHASE IIIA

▨ UNDER CONSTRUCTION

LEVELS ON - 2.00, 2.04, 2.08, 2.12, 2.16, 2.20, 2.24, 2.28, 2.32, 2.36, 2.40, 2.44, 2.48, 2.52, 2.56, 2.60, 2.64, 2.68, 2.72, 2.76, 2.80, 2.84, 2.88, 2.92, 2.96, 3.00, 3.04, 3.08, 3.12, 3.16, 3.20, 3.24, 3.28, 3.32, 3.36, 3.40, 3.44, 3.48, 3.52, 3.56, 3.60, 3.64, 3.68, 3.72, 3.76, 3.80, 3.84, 3.88, 3.92, 3.96, 4.00, 4.04, 4.08, 4.12, 4.16, 4.20, 4.24, 4.28, 4.32, 4.36, 4.40, 4.44, 4.48, 4.52, 4.56, 4.60, 4.64, 4.68, 4.72, 4.76, 4.80, 4.84, 4.88, 4.92, 4.96, 5.00, 5.04, 5.08, 5.12, 5.16, 5.20, 5.24, 5.28, 5.32, 5.36, 5.40, 5.44, 5.48, 5.52, 5.56, 5.60, 5.64, 5.68, 5.72, 5.76, 5.80, 5.84, 5.88, 5.92, 5.96, 6.00, 6.04, 6.08, 6.12, 6.16, 6.20, 6.24, 6.28, 6.32, 6.36, 6.40, 6.44, 6.48, 6.52, 6.56, 6.60, 6.64, 6.68, 6.72, 6.76, 6.80, 6.84, 6.88, 6.92, 6.96, 7.00, 7.04, 7.08, 7.12, 7.16, 7.20, 7.24, 7.28, 7.32, 7.36, 7.40, 7.44, 7.48, 7.52, 7.56, 7.60, 7.64, 7.68, 7.72, 7.76, 7.80, 7.84, 7.88, 7.92, 7.96, 8.00, 8.04, 8.08, 8.12, 8.16, 8.20, 8.24, 8.28, 8.32, 8.36, 8.40, 8.44, 8.48, 8.52, 8.56, 8.60, 8.64, 8.68, 8.72, 8.76, 8.80, 8.84, 8.88, 8.92, 8.96, 9.00, 9.04, 9.08, 9.12, 9.16, 9.20, 9.24, 9.28, 9.32, 9.36, 9.40, 9.44, 9.48, 9.52, 9.56, 9.60, 9.64, 9.68, 9.72, 9.76, 9.80, 9.84, 9.88, 9.92, 9.96, 10.00

FILE NAME: HDGN:d8 80101300 56th st.dgn




ROAD CLOSED TO THRU TRAFFIC
R3-4
60' X 30'

DETOUR
M4-SR
30' X 24'

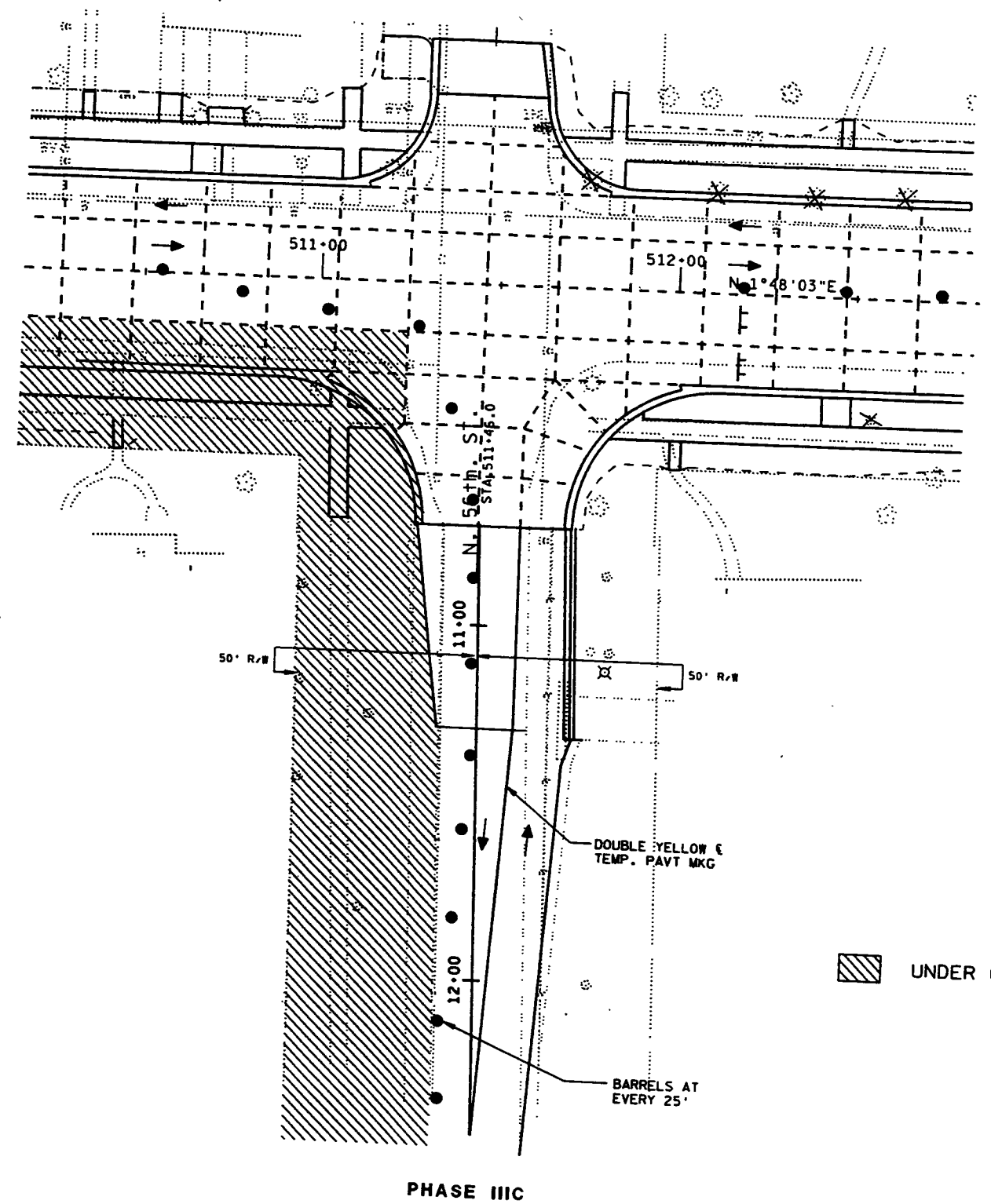
R3-2
24' X 24'


DO NOT ENTER
R5-1
30' X 30'

 UNDER CONSTRUCTION

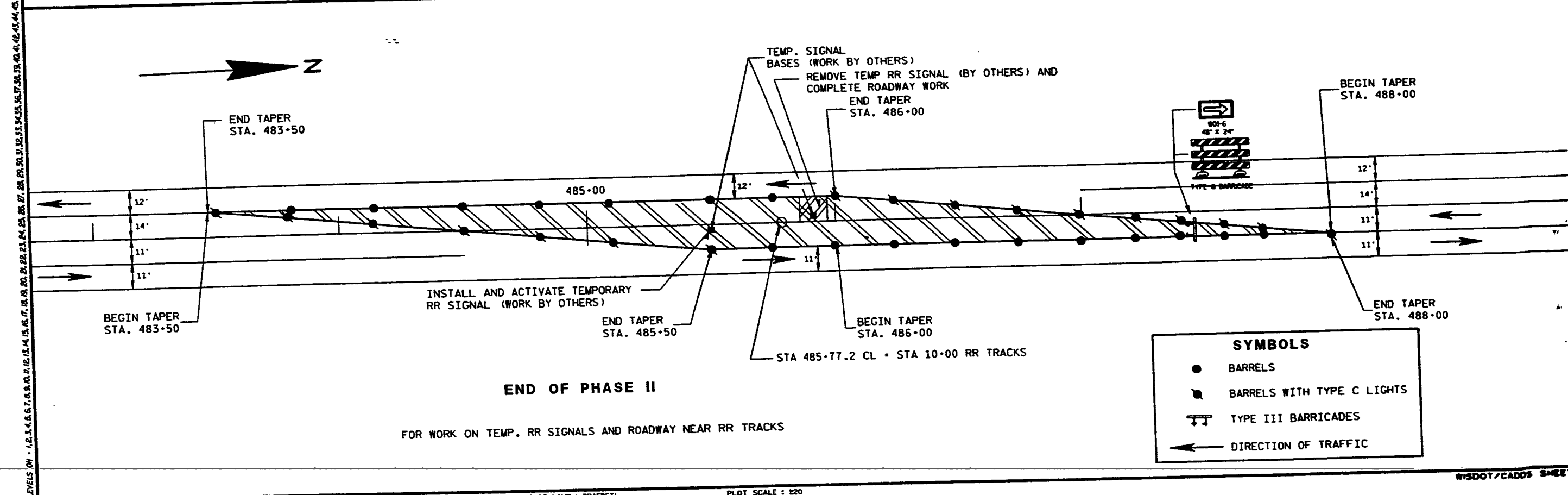
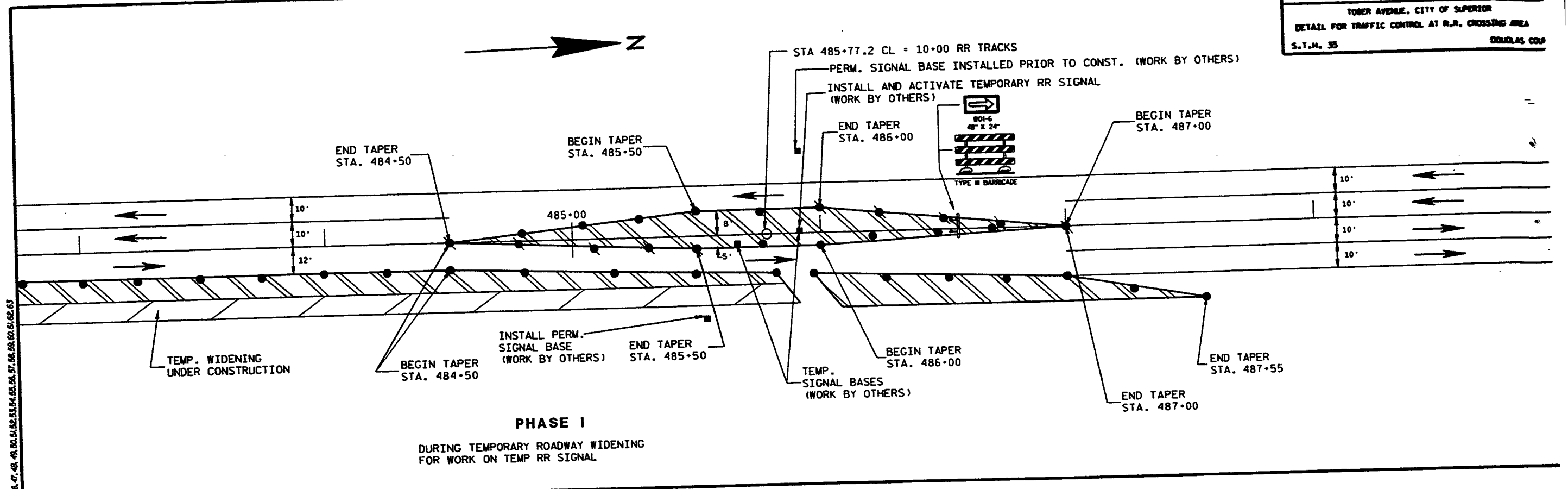
PHASE IIIB

LEVELS ON 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3



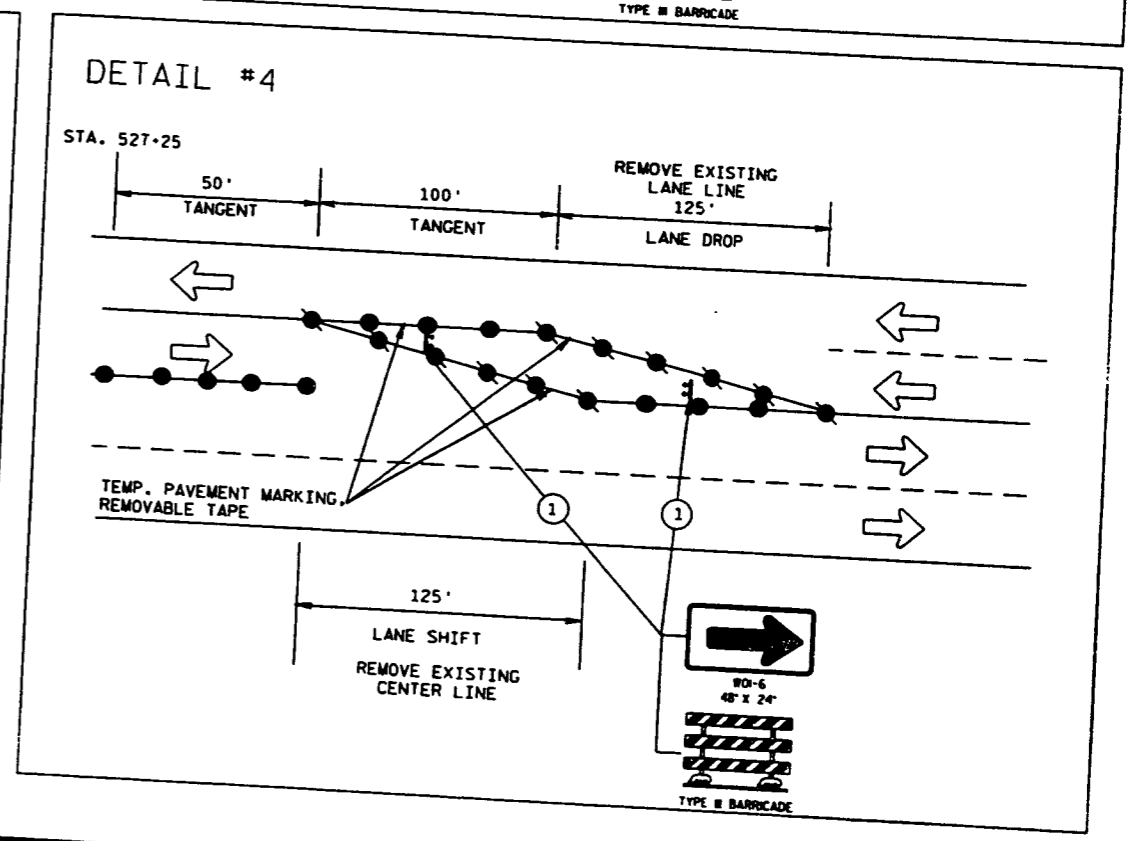
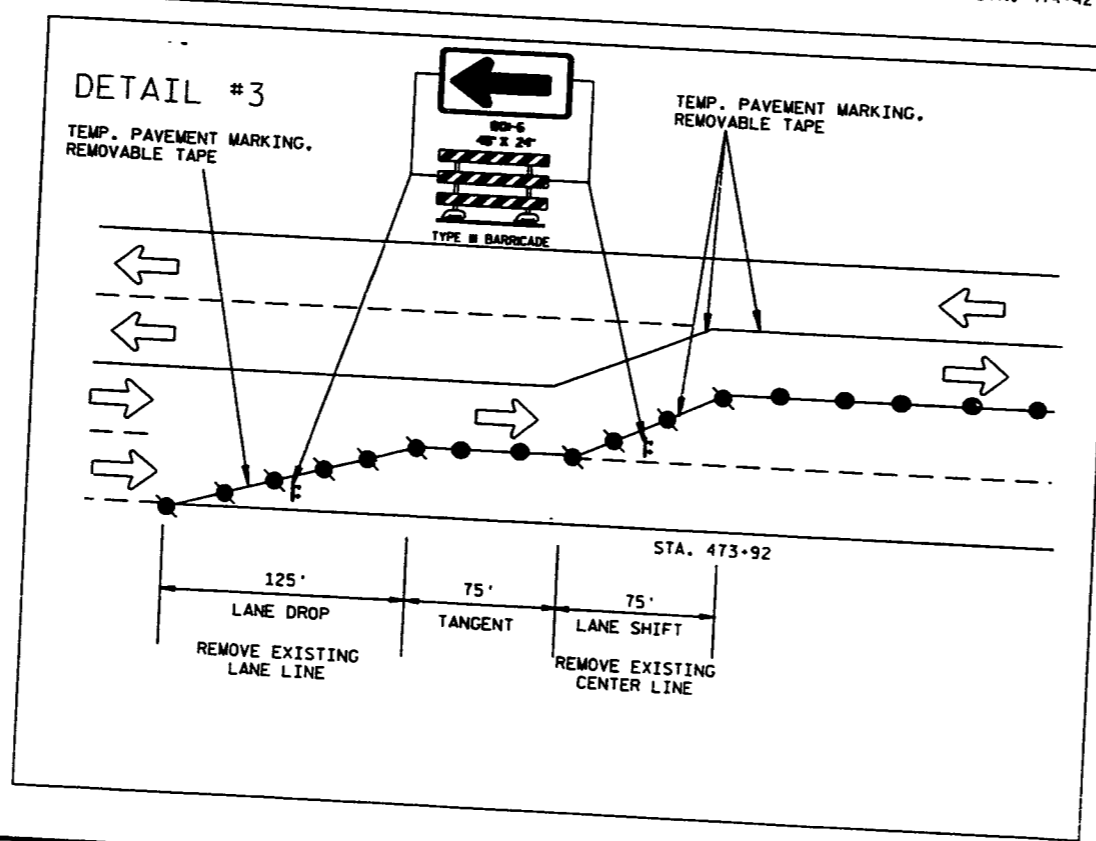
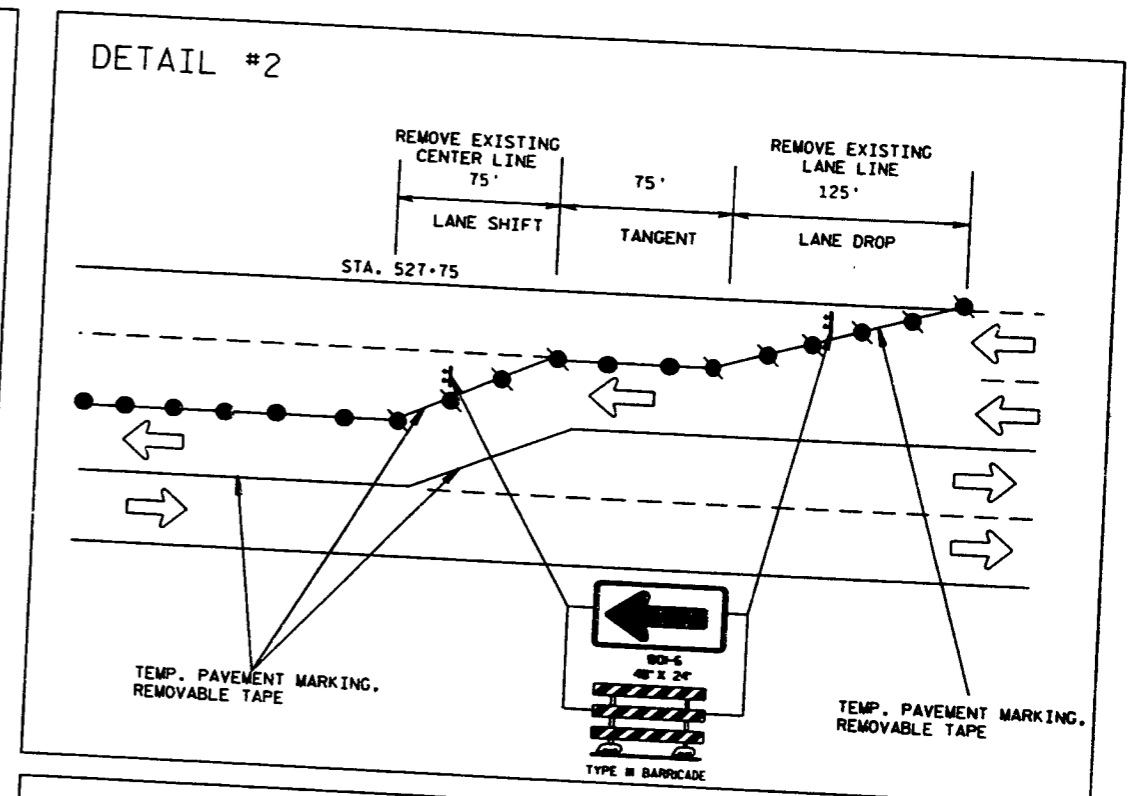
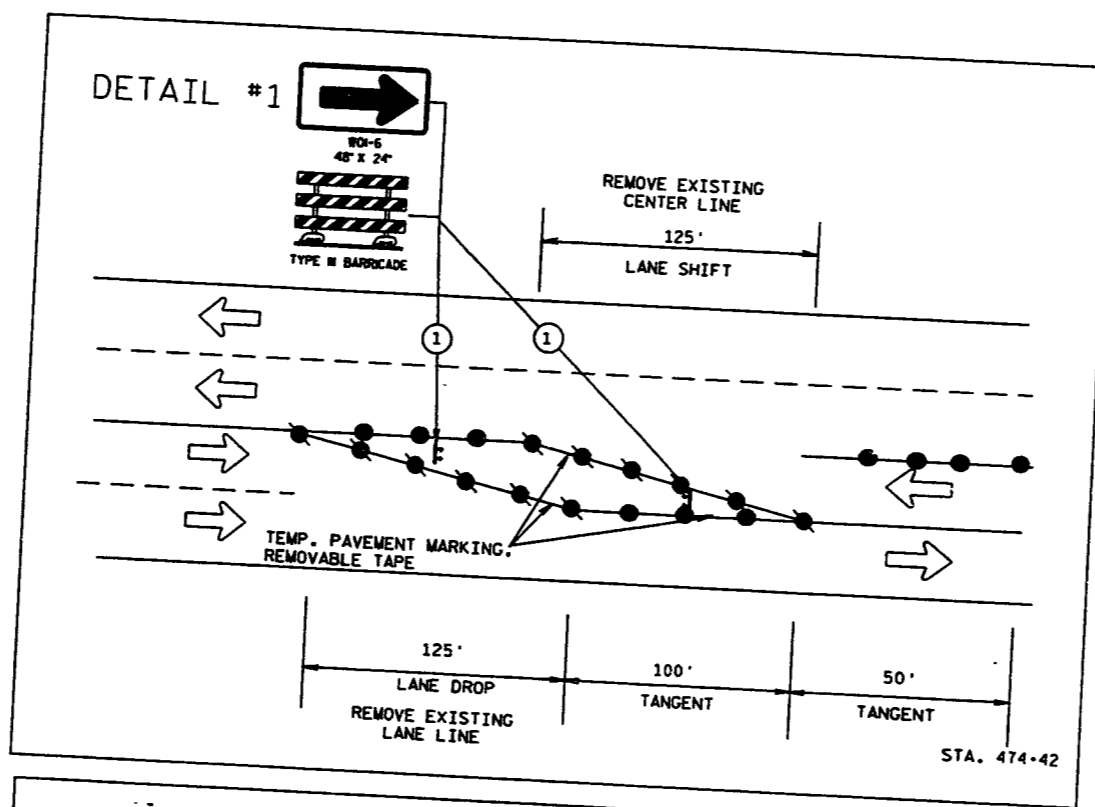
 UNDER CONSTRUCTION

LEVELS ON - 01.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 24.00, 25.00, 26.00, 27.00, 28.00, 29.00, 30.00, 31.00, 32.00, 33.00, 34.00, 35.00, 36.00, 37.00, 38.00, 39.00, 40.00, 41.00, 42.00, 43.00, 44.00, 45.00, 46.00, 47.00, 48.00, 49.00, 50.00, 51.00, 52.00, 53.00, 54.00, 55.00, 56.00, 57.00, 58.00, 59.00, 60.00, 61.00, 62.00, 63.00, 64.00, 65.00, 66.00, 67.00, 68.00, 69.00, 70.00, 71.00, 72.00, 73.00, 74.00, 75.00, 76.00, 77.00, 78.00, 79.00, 80.00, 81.00, 82.00, 83.00, 84.00, 85.00, 86.00, 87.00, 88.00, 89.00, 90.00, 91.00, 92.00, 93.00, 94.00, 95.00, 96.00, 97.00, 98.00, 99.00, 100.00

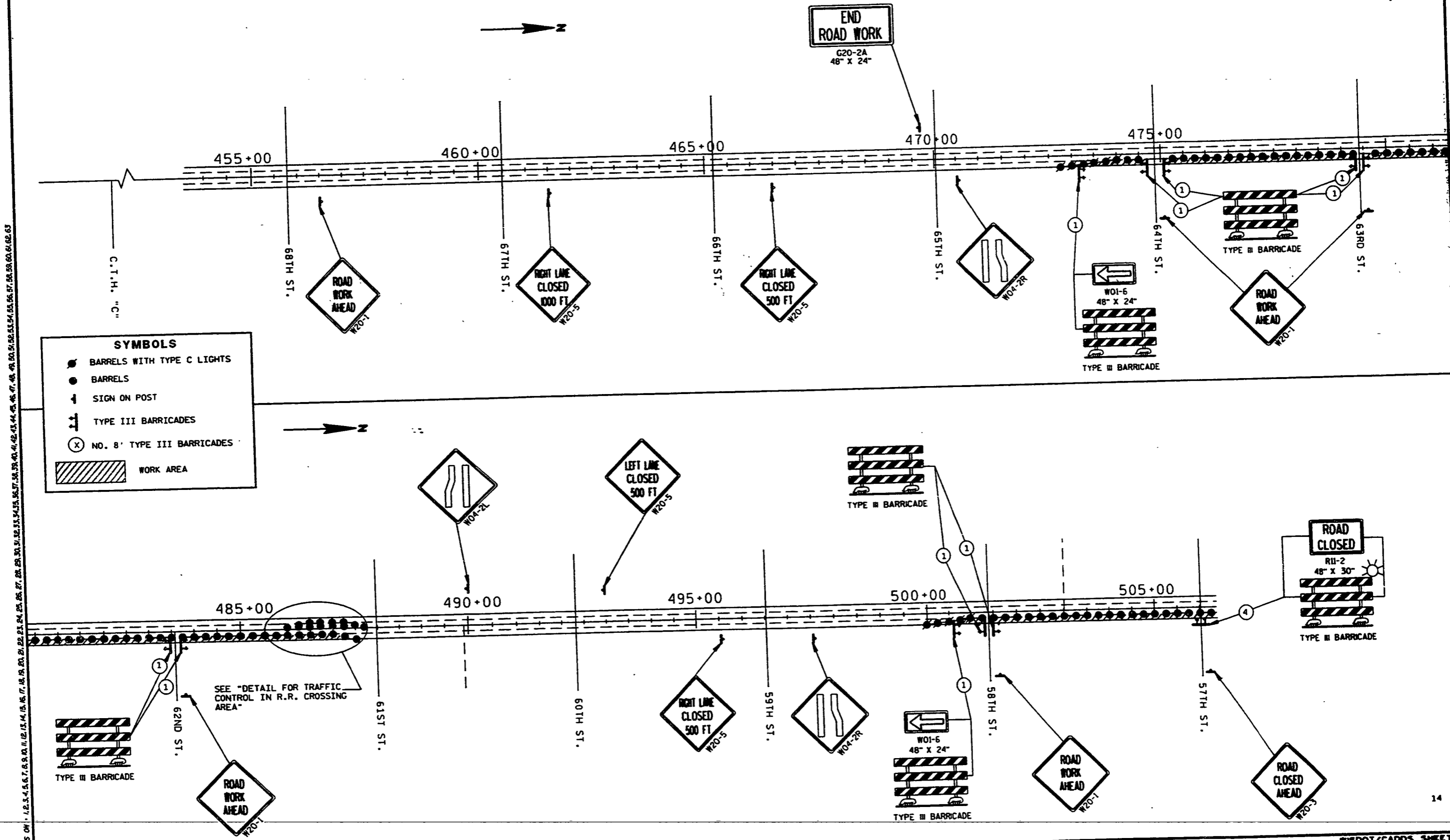


LEVELS ON - 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63

- SYMBOLS**
- BARRELS WITH TYPE C LIGHTS
 - BARRELS
 - TYPE III BARRICADES
 - DIRECTION OF TRAFFIC



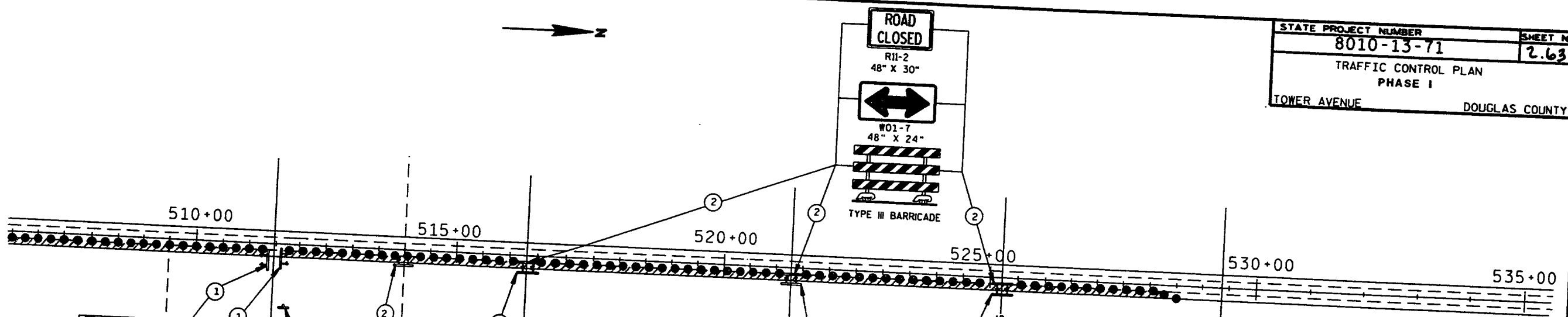
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SYMBOLS

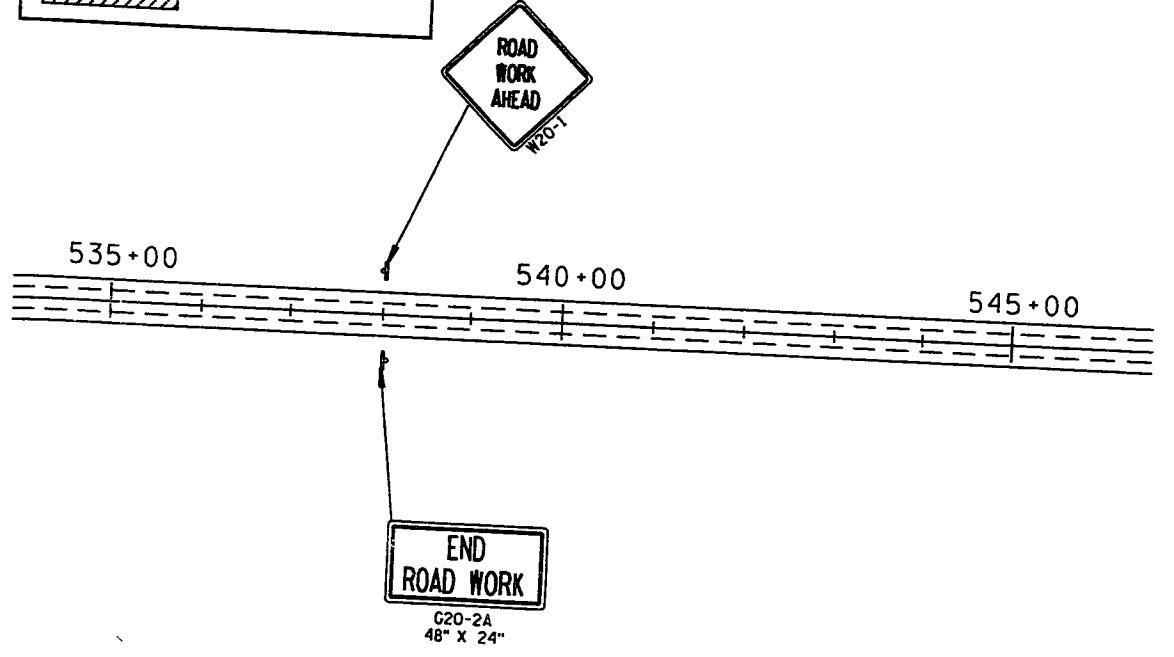
- BARRELS WITH TYPE C LIGHTS
- BARRELS
- ↑ SIGN ON POST
- ⊥ TYPE III BARRICADES
- ⊗ NO. 8' TYPE III BARRICADES
- ▨ WORK AREA

LEVELS ON: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

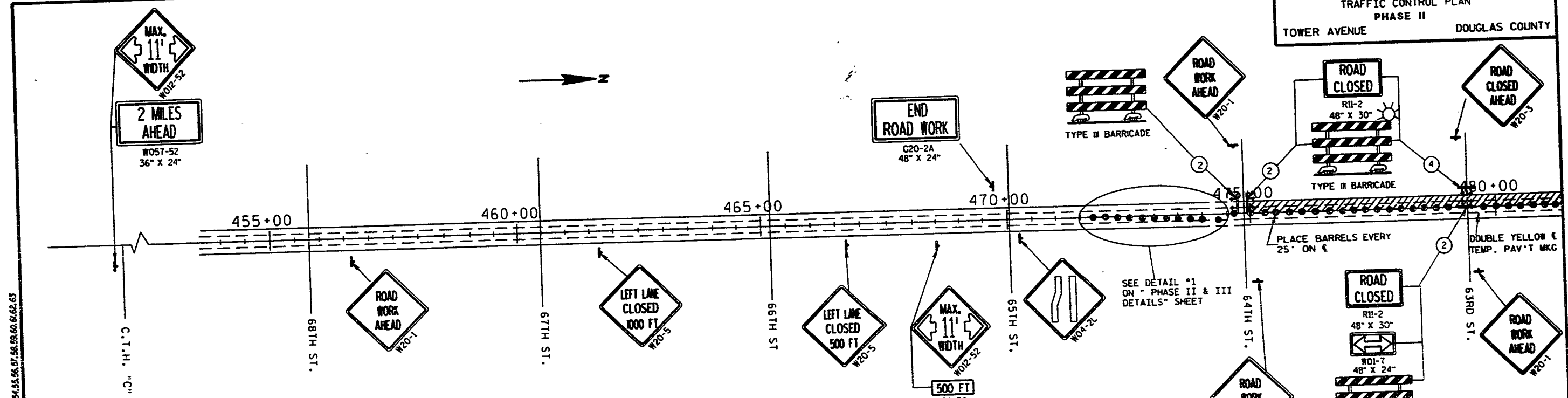


SYMBOLS

- BARRELS WITH TYPE C LIGHTS
- BARRELS
- ↑ SIGN ON POST
- ⊥ TYPE III BARRICADES
- ⊗ NO. 8' TYPE III BARRICADES
- ▨ WORK AREA



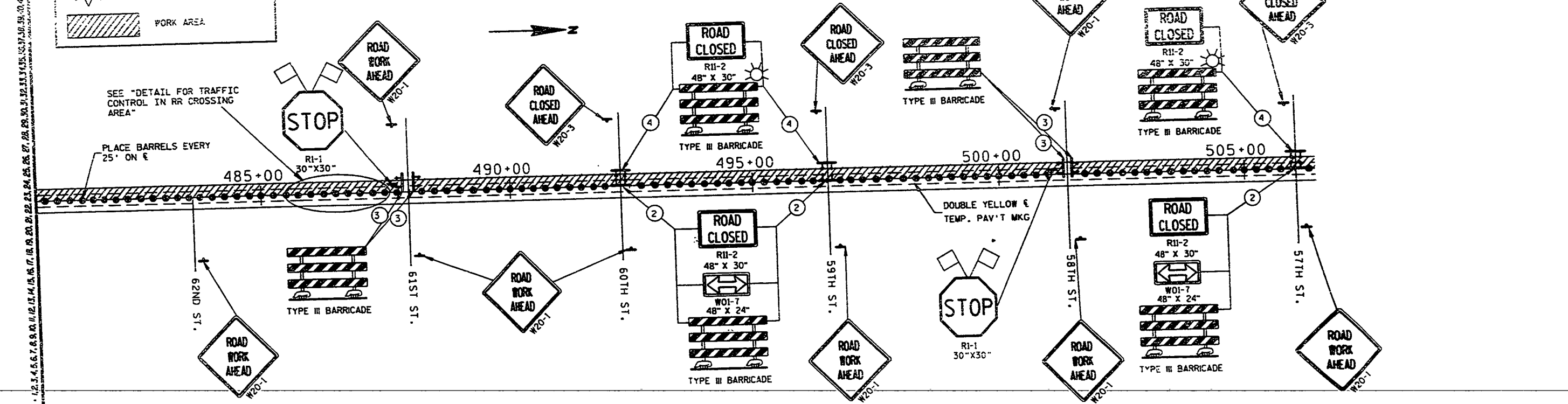
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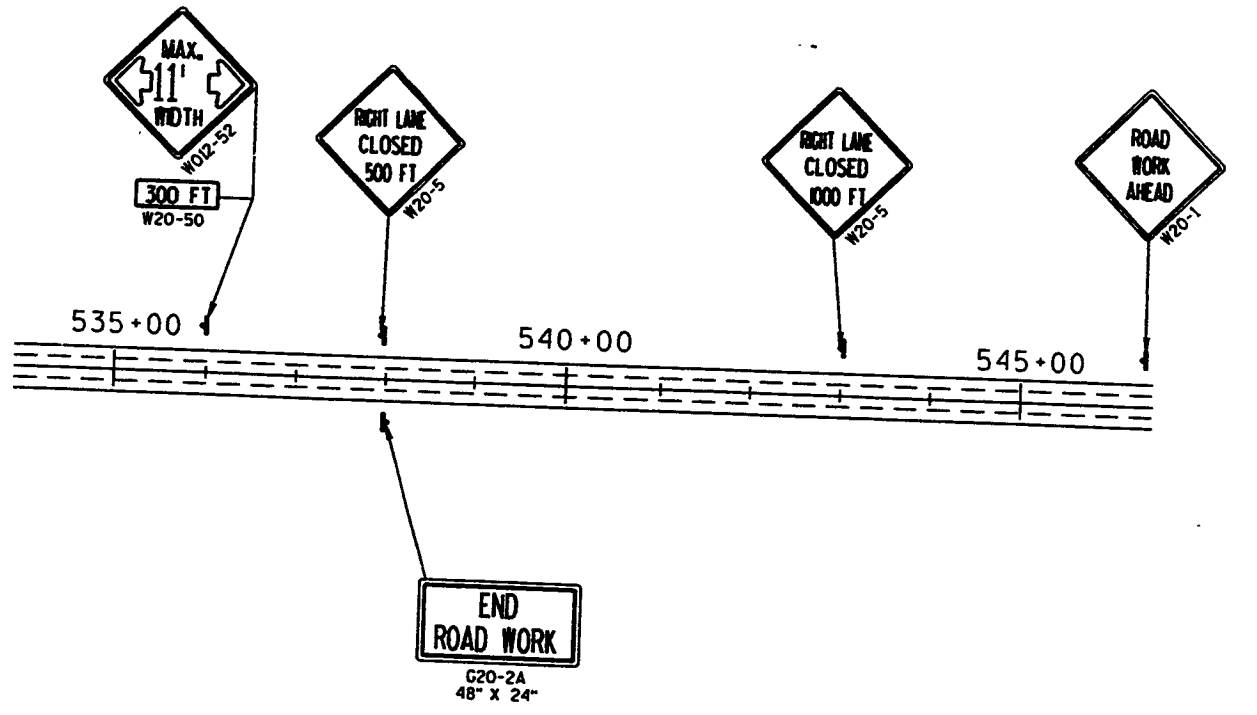
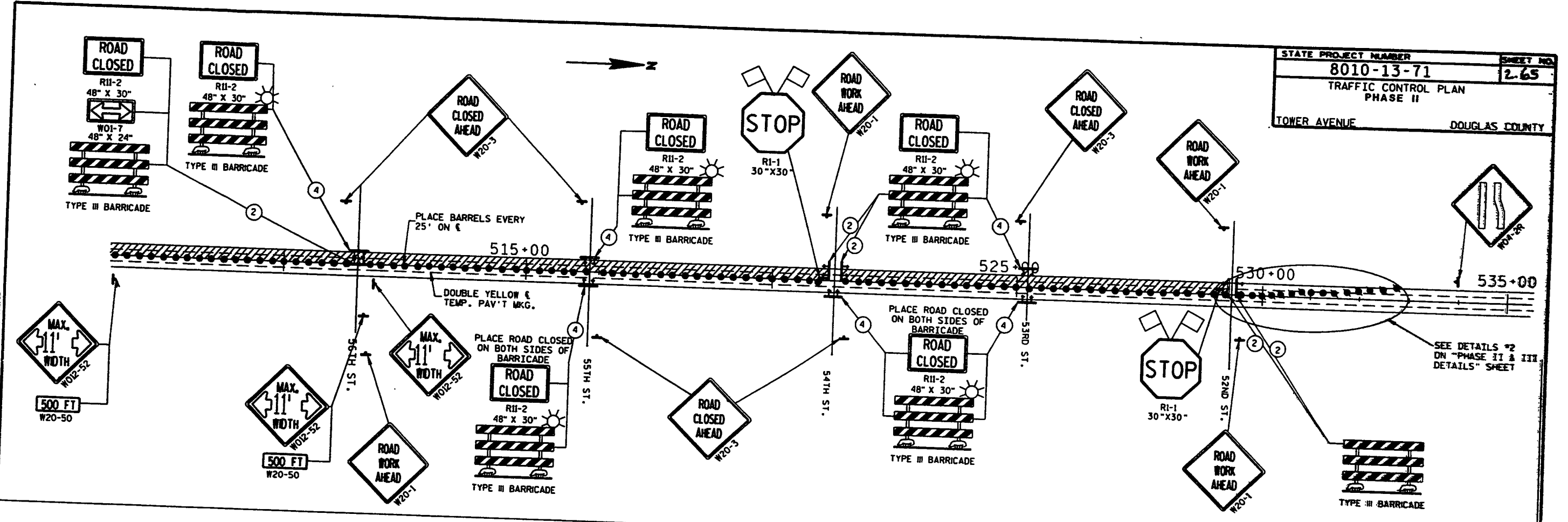


SYMBOLS

- BARRELS
- ↑ SIGN ON POST
- ▬ TYPE III BARRICADES
- ⊗ NO. 8" TYPE III BARRICADES
- ⚡ 16" X 16" MIN. ORANGE FLAGS
- ▨ WORK AREA

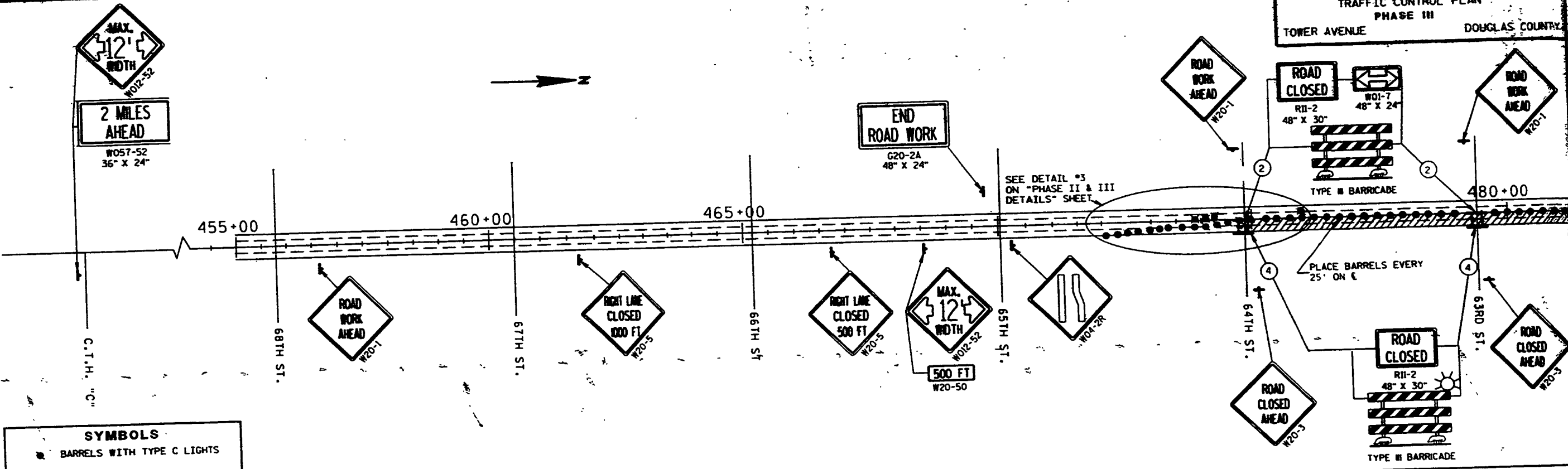
LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63





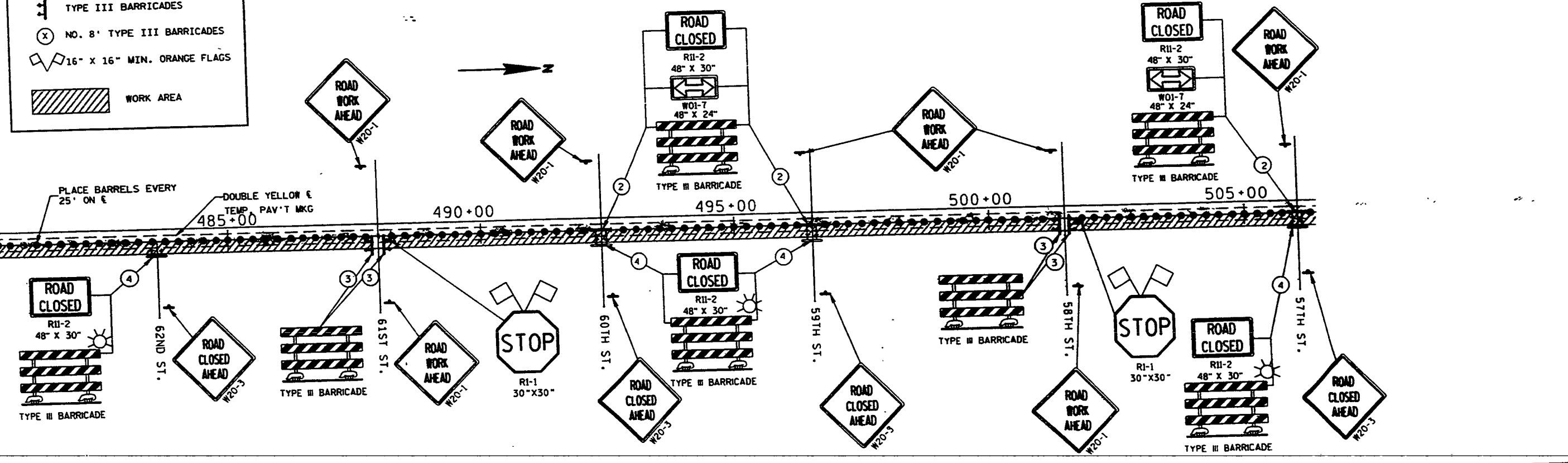
SYMBOLS	
	BARRELS WITH TYPE C LIGHTS
	BARRELS
	SIGN ON POST
	TYPE III BARRICADES
	NO. 8' TYPE III BARRICADES
	16" X 16" MIN. ORANGE FLAGS
	WORK AREA

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

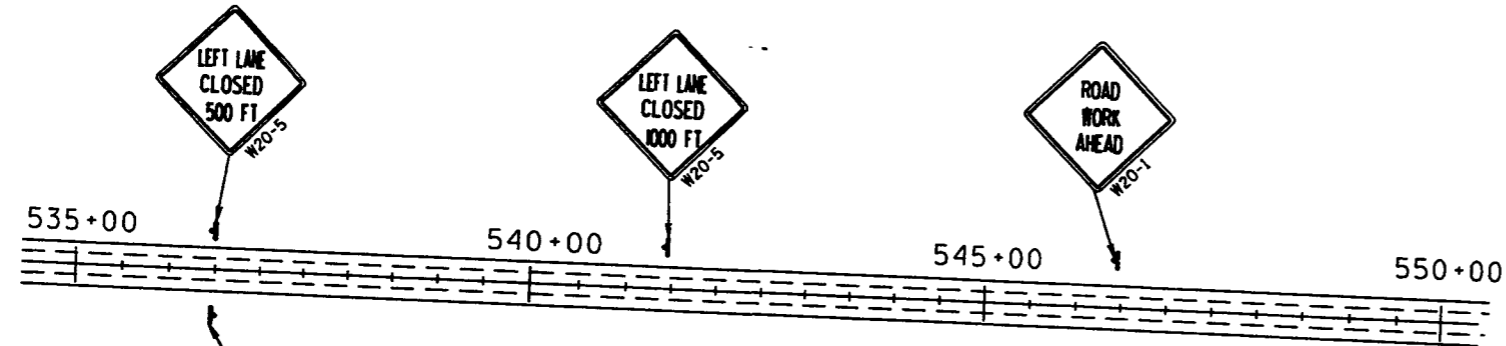
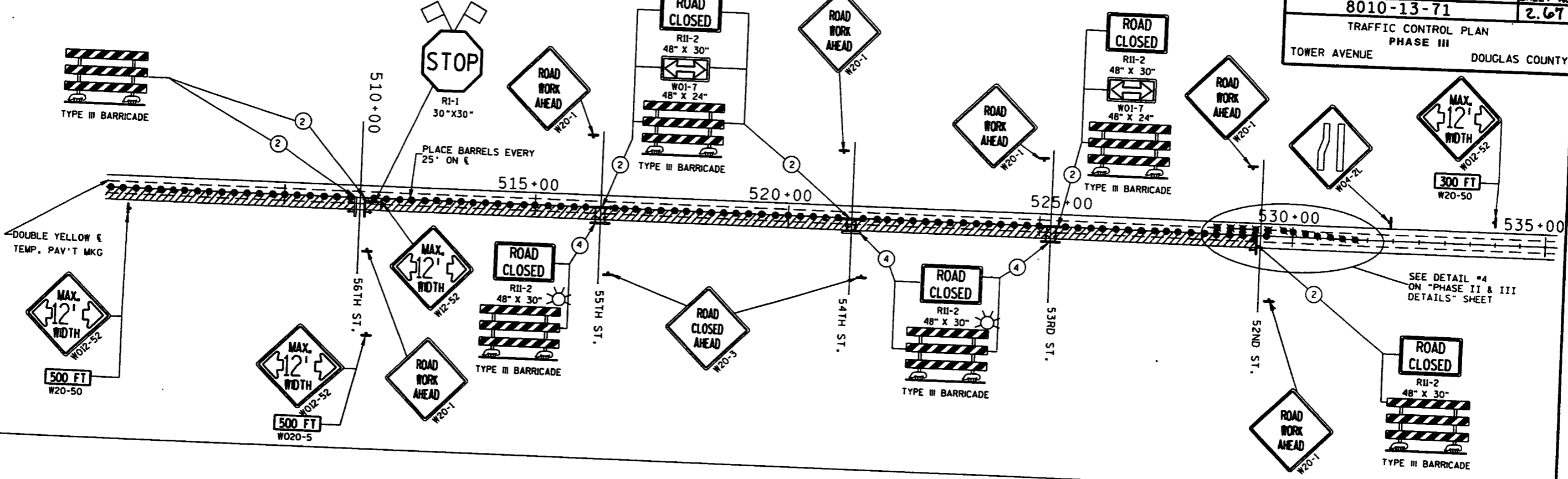


SYMBOLS

- BARRELS WITH TYPE C LIGHTS
- BARRELS
- ▲ SIGN ON POST
- ▬ TYPE III BARRICADES
- ⊙ NO. 8' TYPE III BARRICADES
- ◊ 16" X 16" MIN. ORANGE FLAGS
- ▨ WORK AREA



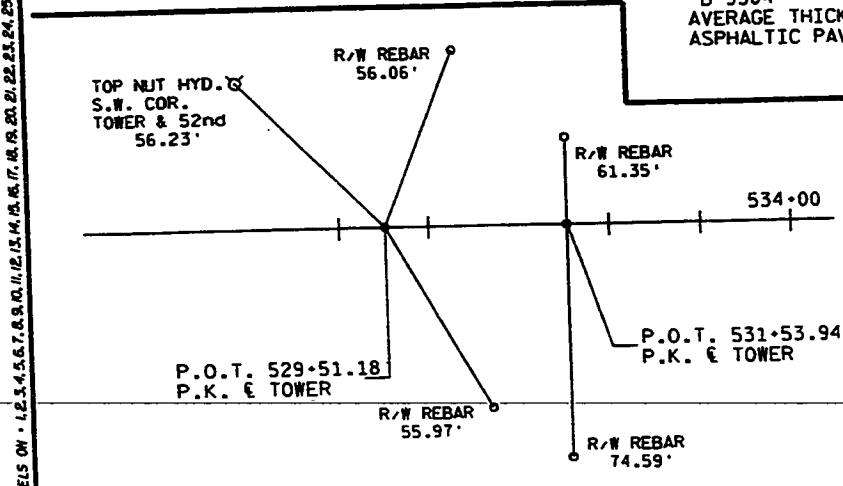
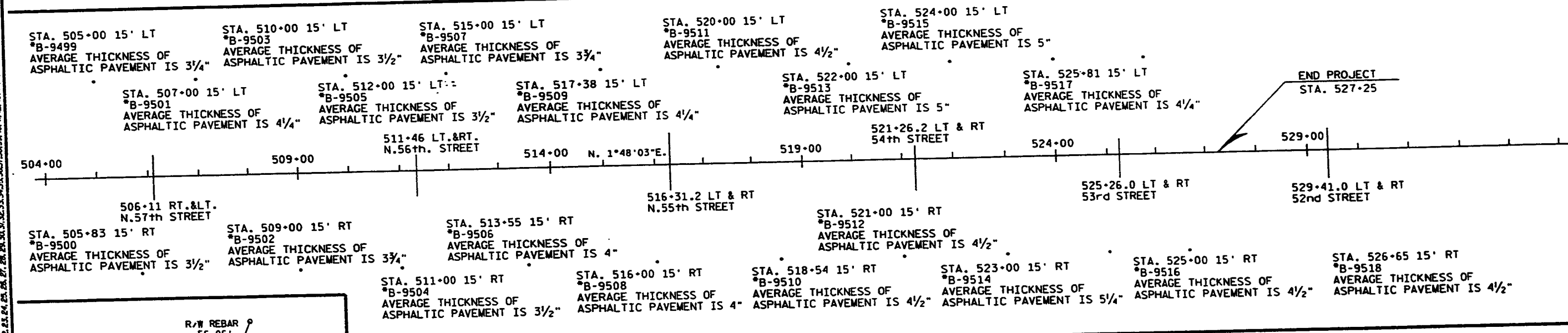
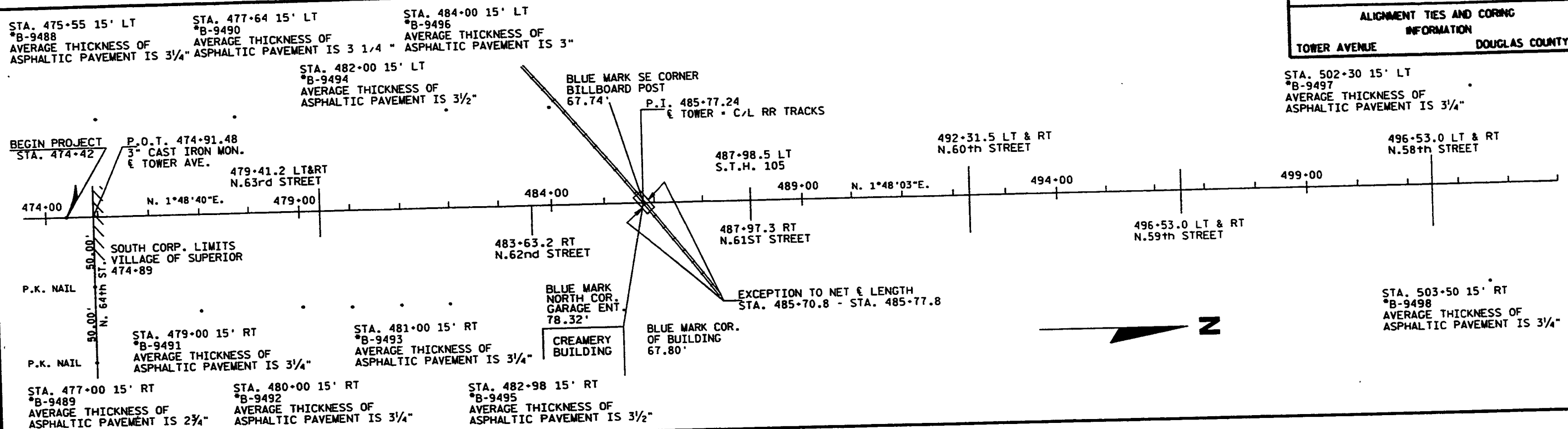
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SYMBOLS

- BARRELS WITH TYPE C LIGHTS
- BARRELS
- SIGN ON POST
- ▬ TYPE III BARRICADES
- ⊗ NO. 8' TYPE III BARRICADES
- ◊ 16" X 16" MIN. ORANGE FLAGS
- ▨ WORK AREA

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



NOTE: AVERAGE ASPHALTIC PAVEMENT THICKNESSES MAY VARY DUE TO ASPHALTIC OVERLAYS THAT WERE PLACED SINCE THESE BORINGS WERE COMPLETED

* SOILS BORING DATA ON THESE LOCATIONS IS AVAILABLE AT THE DISTRICT OFFICE UPON REQUEST.

LEVELS ON - 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.