NORTH ROOP STREET ENHANCEMENT PROJECT

CARSON CITY, NEVADA

PROJECT 3-0907

BOARD OF SUPERVISORS

Robert Crowell	Mayor
Karen Abowd	Supervisor
Shelly Aldean	Supervisor
John McKenna	Supervisor
Molly Walt	Supervisor
Alan Glover	City Clerk

DESIGNED FOR:

CARSON CITY PUBLIC WORKS DEPARTMENT
OPERATIONS DIVISION
3505 BUTTI WAY
CARSON CITY, NV 89701
887-2355

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (SSPWC) AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (SDPWC) AS ADOPTED BY CARSON CITY. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR PUBLIC WORKS CONSTRUCTION FROM THE CARSON CITY PERMIT CENTER PRIOR TO THE START OF CONSTRUCTION.

   ALL WORK IN NDOT RIGHT-OF-WAY SHALL CONFORM TO THE STATE OF NEVADA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2001 EDITION AND THE STATE OF NEVADA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 EDITION.

2. ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE CARSON CITY RIGHT-OF-WAY SHALL CONFORM TO SECTION 100.33, 332.04 AND 332.05 OF THE STANDARD SPECIFICATIONS, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE UNR T2 CENTER, TEMPORARY TRAFFIC CONTROL GUIDELINES LATEST EDITION. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CARSON CITY ENGINEERING DIVISION PRIOR TO ANY STREET CLOSURES. TRAFFIC CONTROL PLANS SHALL ALSO INCLUDE TRAFFIC CONTROL FOR BIICYCLES AND PEDESTRIANS.

3. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (811) OR (1-800-227-2600) AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH THE REQUIREMENTS OF NRS AND NAC 455 THROUGHOUT THE COURSE OF THE WORK, SEWER SERVICE LATERALS ARE NOT OWNED OR MARKED BY CARSON CITY.

4. THE CONTRACTOR SHALL CALL THE CARSON CITY ENGINEERING DIVISION (887-2300) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL ONE (1) WORKING DAY PRIOR TO REQUIRED INSPECTIONS AND TESTING. THE REQUIRED INSPECTIONS AND TESTING ARE LISTED ON THE INSPECTION RECORD ISSUED WITH EACH PERMIT. THE CONTRACTOR MUST HAVE THE PERMIT NUMBER AND THE DESCRIPTION LISTED ON THE INSPECTION RECORD TO SCHEDULE REQUIRED INSPECTIONS AND TESTING. FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE INSPECTIONS PER THE CONTRACT DOCUMENTS.

5. FINAL INSPECTIONS WILL BE PERFORMED BY CARSON CITY ENGINEERING DIVISION ACCORDING TO THE CARSON CITY INSPECTIONS AND TESTING PROCEDURES. NOTE: THESE PROCEDURES REQUIRE SUBMITTAL OF RECORD DRAWING PRINTS BY THE CONTRACTOR AND 10 WORKING DAYS TO PREPARE A FINAL PUNCH LIST. ALL CONDITIONS OF THE FINAL INSPECTION MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OR ANY APPROVAL OF A CERTIFICATE OF OCCUPANCY BY THE CARSON CITY ENGINEERING DIVISION.

6. MODIFICATIONS TO THE APPROVED PLANS REQUIRES REVIEW AND APPROVAL BY THE CARSON CITY ENGINEERING DIVISION. WORK PERFORMED WITHOUT WRITTEN APPROVAL BY CARSON CITY ENGINEERING WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE.

7. THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.

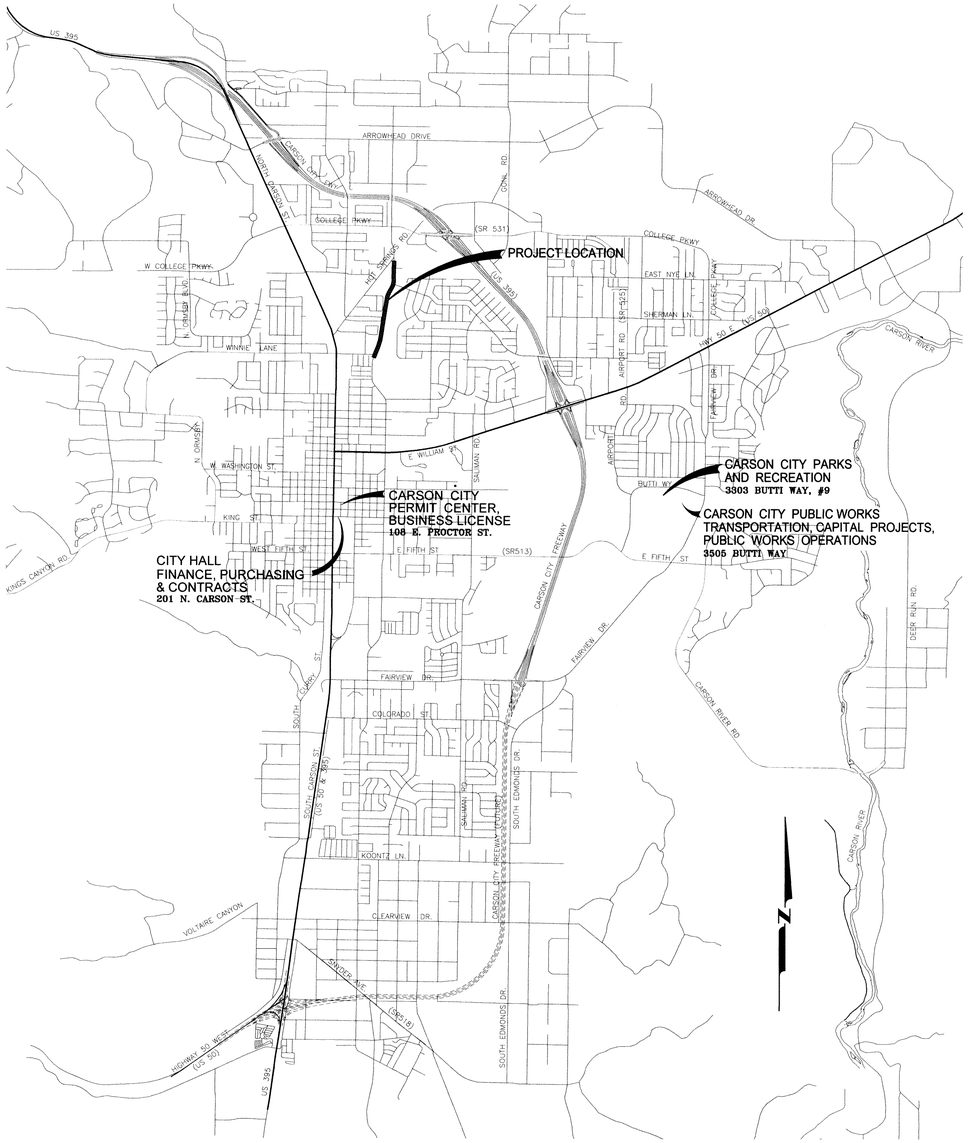
8. PLAN APPROVAL FOR SEWER AND WATER CONSTRUCTION SHALL EXPIRE ONE YEAR FROM DATE OF APPROVAL UNLESS CONSTRUCTION HAS BEEN INITIATED. (CCMC 12.06.180F, 12.01.140D)

9. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) INCLUDING DEVELOPING, SUBMITTING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPLIANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2008).

10. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THESE LOCATIONS AT THE PROPOSED POINTS OF CONNECTIONS AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION, PRIOR TO BEGINNING CONSTRUCTION. POTHOLING IS REQUIRED. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, HE SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

11. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF PROPER SHORING OF TRENCHES IN ACCORDANCE WITH OCCUPATIONAL SAFETY LAWS. THE DUTIES OF THE ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY IN, ON, OR NEAR THE CONSTRUCTION SITE.

12. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.



VICINITY MAP

N.T.S.

SHEET INDEX

1	TITLE SHEET
2	INDEX SHEET, ABBREVIATIONS AND LEGEND
3	STORMWATER PROTECTION PLAN
4	FIBER OPTIC CONDUIT PLAN
5	FIBER OPTIC CONDUIT DETAILS
6	PLAN & PROFILE – ROOP STREET (STA 9+00 TO 13+00)
7	PLAN & PROFILE – ROOP STREET (STA 13+00 TO 17+00)
8	PLAN & PROFILE – ROOP STREET (STA 17+00 TO 21+00)
9	PLAN & PROFILE – ROOP STREET (STA 21+00 TO 25+00)
10	PLAN & PROFILE – ROOP STREET (STA 25+00 TO 29+00)
11	PLAN & PROFILE – ROOP STREET (STA 29+00 TO 33+00)
12	PLAN & PROFILE – ROOP STREET (STA 33+00 TO 37+50)
13	PLAN – ROOP STREET (STA 37+50 TO 40+00)
14	ENLARGED PLAN – NORTHRIDGE DRIVE (STA 33+00 TO 35+00)
15	PLAN & PROFILE – NORTHRIDGE DRIVE (STA 50+00 TO 53+00)
16	SECTIONS
17	DETAILS
18	DETAILS
19	DETAILS
20	STRIPING & SLURRY PLAN (STA 9+00 TO 31+50)
21	STRIPING & SLURRY PLAN (STA 31+50 TO 42+00)
22	SIGNAGE PLAN (STA 9+00 TO 31+50)
23	SIGNAGE PLAN (STA 31+50 TO 42+00)

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

CARSON CITY APPLICATION NO. 12-170

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907TS1
SCALE (HORIZ): N/A
SCALE (VERT): N/A
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET ENHANCEMENT PROJECT
PROJECT No. 3-0907

TITLE SHEET

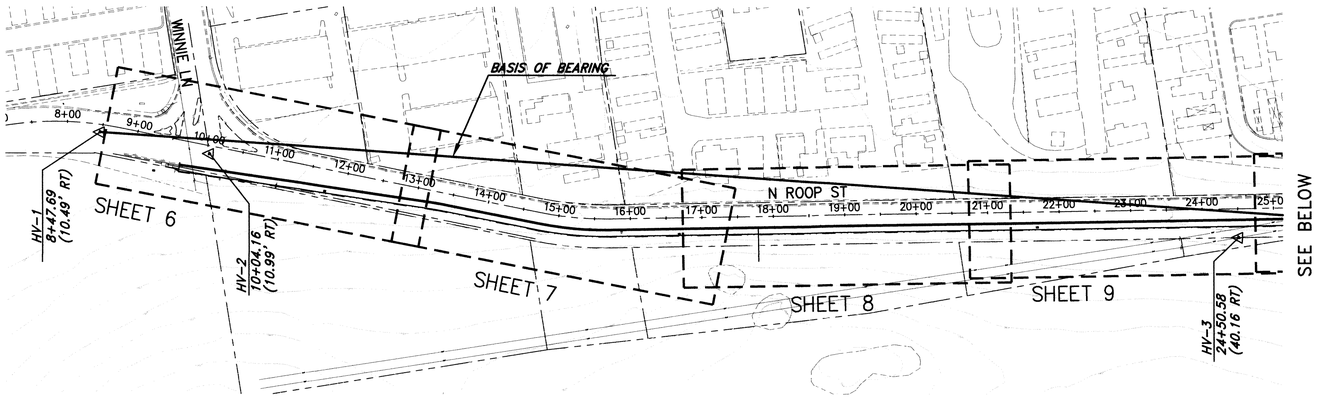
SHEET 1 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

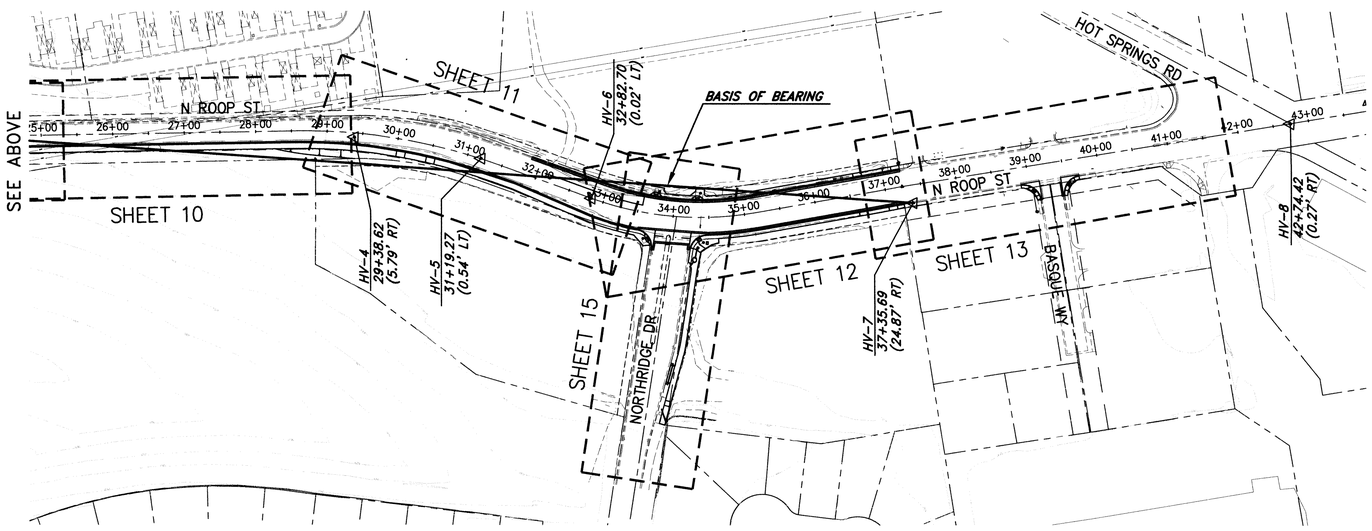
H:\Projects\3-0907 Roop at northridge sidewalk\dwg\3-0907ts1.dwg, TITLE-SH*, 5/10/2012 2:01:16 PM, bdaye



SHEET INDEX

SCALE: 1"=100'

SCALE
HORIZ: 1" = 100'



SHEET INDEX

SCALE: 1"=100'

LEGEND

EXISTING		PROPOSED
	APPROX. PROPERTY LINE	
	DESIGN LINE	
	EASEMENT	
	FENCE	
	EDGE OF PAVEMENT	
	LIMITS OF SLURRY	
	CONSTRUCTION NOTE	XX
	WATER MAIN	
	WATER VALVE	
	FIRE HYDRANT	
	AIR RELEASE VALVE	
18"SD	SEWER PIPE	
S	SEWER MANHOLE	S
18"SD	STORM DRAIN PIPE	18"SD
D	STORM DRAIN MANHOLE	D
	STORM DRAIN CURB INLET	
	FIBER OPTIC CONDUIT	
61 4644.45 DESC	SURVEY POINT	
	SURVEY CONTROL POINT	
	FLOW LINE/DRAINAGE SWALE	
	CONTOUR ELEVATION	
	SPOT ELEVATION	TOP OF CURB FLOW LINE
PP	POWER POLE	
OHP	OVERHEAD POWER	
	GUY WIRE	
	GRIND AND OVERLAY EXISTING AC PAVEMENT	
	SAWCUT & REMOVE EXISTING AC PAVEMENT	
	AC PAVEMENT PATCH	
	PCC CONCRETE	

ABBREVIATIONS

AB	AGGREGATE BASE	GV	GAS VALVE/GATE VALVE	Q	FLOW (CFS)
AC	ASPHALTIC CONCRETE	HD	HEAVY DUTY	R	RADIUS
ACP	ASBESTOS CEMENT PIPE	HGL	HYDRAULIC GRADE LINE	RCP	REINFORCED CONCRETE PIPE
AGG	AGGREGATE	HORIZ	HORIZONTAL	RCW	RECLAIMED WATER
APN	ASSESSORS PARCEL NUMBER	HP	HIGH POINT	REQ'D	REQUIRED
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HV	HORIZONTAL/VERTICAL	R/W. ROW	RIGHT OF WAY
BC	BEGIN CURVE	HYD	HYDRANT	RT	RIGHT
BVC	BEGIN VERTICAL CURVE	ID	INSIDE DIAMETER	S	SLOPE, SOUTH
BLDG	BUILDING	IE	INVERT ELEVATION	SCH	SCHEDULE
BOW	BACK OF WALK	INST	INSTALL	SD	STORM DRAIN
CATV	CABLE TV	IRRG	IRRIGATION LINE	SDMH	STORM DRAIN MANHOLE
CB	CATCH BASIN	JCT	JUNCTION	SDR	STANDARD DIMENSION RATIO
C&G	CURB & GUTTER	L	LENGTH	SDWK	SIDEWALK
CI	CAST IRON	LAT	LATERAL	SF	SQUARE FEET
CL	CENTER LINE, CLASS	LF	LINEAL FEET	SHT	SHEET
CMP	CORRUGATED METAL PIPE	MAX	MAXIMUM	SQ	SQUARE
CMU	CONCRETE MASONRY UNIT	MDD	MAXIMUM DRY DENSITY	SS	SANITARY SEWER
CONC	CONCRETE	MH	MANHOLE	SSMH	SANITARY SEWER MANHOLE
CLR	CLEAR, CLEARANCE	MJ	MECHANICAL JOINT	STA	STATION
DI	DROP INLET/DUCTILE IRON	MIN	MINIMUM	STD	STANDARD
DTL	DETAIL	MMD	MAXIMUM MARSHAL DENSITY	STL	STEEL
DIA, ø	DIAMETER	MAX	MAXIMUM	T	TANGENT
DWG	DRAWING	N	NORTH	TC	TOP OF CURB
E	EAST	NIC	NOT IN CONTRACT	TELE	TELEPHONE
EA	EACH	NTS	NOT TO SCALE	TBC	TOP BACK OF CURB
EC	END CURVE	OC	ON CENTER	TOG	TOP OF GRATE
ELEC	ELECTRIC/ELECTRICAL	OD	OUTSIDE DIAMETER	TOP	TOP OF PIPE
EL, ELEV	ELEVATION	PC	POINT OF CURVATURE	TOV	TOP OF VAULT
EP	EDGE OF PAVEMENT	POC	POINT ON CURVE	TRAF	TRAFFIC
EVC	END VERTICAL CURVE	PCC	PORTLAND CEMENT CONCRETE	TRANS	TRANSFORMER
EX, EXIST	EXISTING	PI	POINT OF INTERSECTION	TYP	TYPICAL
FG	FINISH GRADE	PIP	PROTECT IN PLACE	UG	UNDERGROUND
FL	FLOWLINE	PL	PROPERTY LINE	UGE	UNDERGROUND ELECTRIC
FF	FINISH FLOOR	PRC	POINT OF REVERSE CURVE	VC	VERTICAL CURVE
F/O	FIBER OPTIC	PT	POINT	VG	VALLEY GUTTER
G	GAS	PVC	POLYVINYL CHLORIDE	VERT	VERTICAL
GALV	GALVANIZED	PVI	POINT OF VERTICAL INTERSECTION	W	WEST, WATER
GB	GRADE BREAK	PVM'T	PAVEMENT	W/	WITH
				W/O	WITHOUT
				WS	WATER SERVICE
				WV	WATER VALVE

UNANTICIPATED DISCOVERIES:

- IF PREVIOUSLY UNIDENTIFIED ARCHAEOLOGICAL OR HISTORIC PROPERTIES ARE DISCOVERED DURING THE CONSTRUCTION OF THE NORTH ROOP STREET PROJECT, THEN CONSTRUCTION ACTIVITIES WILL STOP WITHIN 100 METERS OF THE SITE OF THE DISCOVERY.
- THE CONTRACTOR WILL NOTIFY NDOT CHIEF ARCHAEOLOGIST, CLIFF CREGER (775-888-7666 AND/OR CCREGER@DOT.STATE.NV.US), WITHIN 24 HOURS. EVERY EFFORT SHOULD BE TAKEN TO NOTIFY THE CHIEF ARCHAEOLOGIST AS SOON AS POSSIBLE.
- IF HUMAN REMAINS ARE DISCOVERED, THE CONTRACTOR WILL NOTIFY THE CARSON CITY SHERIFF (775-887-2011), AND THE NDOT CHIEF ARCHAEOLOGIST WITHIN 24 HOURS. EVERY EFFORT SHOULD BE TAKEN TO NOTIFY THE SHERIFF AND THE CHIEF ARCHAEOLOGIST AS SOON AS POSSIBLE.
- NO FURTHER CONSTRUCTION WITHIN 100 METERS OF THE AREA OF DISCOVERY WILL PROCEED UNTIL THE NDOT CHIEF ARCHAEOLOGIST NOTIFIES THE NDOT PROJECT MANAGER THAT CONSTRUCTION ACTIVITIES MAY RESUME. NOTIFICATION WILL BE DONE IN WRITING OR IN AN E-MAIL.

HORIZONTAL & VERTICAL CONTROL POINT DATA

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION / LOCATION
HV-1	14740797.58	2290835.71	4715.03	CENTER LINE MONUMENT, STA 8+47.69 (10.49' RT)
HV-2	14740942.87	2290892.23	4717.13	CENTER LINE MONUMENT, STA 10+04.16 (10.99' RT)
HV-3	14742340.39	2291255.85	4747.36	5/8" REBAR 5665 , STA 24+50.58 (40.16' RT)
HV-4	14742826.38	2291302.82	4719.04	CENTERLINE MONUMENT, STA 29+38.62 (5.79' RT)
HV-5	14742995.97	2291362.32	4716.02	CENTERLINE MONUMENT, STA 31+19.27 (0.54' LT)
HV-6	14743137.83	2291443.49	4715.28	CENTERLINE MONUMENT, STA 32+82.70 (3.02' LT)
HV-7	14743580.11	2291527.75	4713.48	CC CONTROL CC0014, BRASS DISK, STA 37+35.69 (24.87' RT)
HV-8	14744119.12	2291510.34	4711.78	CENTERLINE MONUMENT, STA 42+74.42 (0.27' RT)

BASIS OF BEARINGS

FOUND CENTERLINE MONUMENT (HV-1) AT 156± FT SOUTH OF ROOP STREET AND WINNIE LANE INTERSECTION. AND FOUND CARSON CITY CONTROL POINT CC0014 (HV-7) WITH A LINE BETWEEN SAID POINTS HAVING A BEARING OF N 13°58'00" E AND DISTANCE OF 2867.29'.

BASIS OF ELEVATIONS

FOUND CARSON CITY CONTROL POINT CC0014 (HV-7)

ELEVATION = 4713.48'

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=100'
SCALE (VERT): N/A
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA ROBERT D. FELLOWS Exp: 6/30/13 CIVIL No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907

INDEX SHEET, ABBREVIATIONS AND LEGEND

SHEET 2 OF 23

FOR BIDDING ONLY

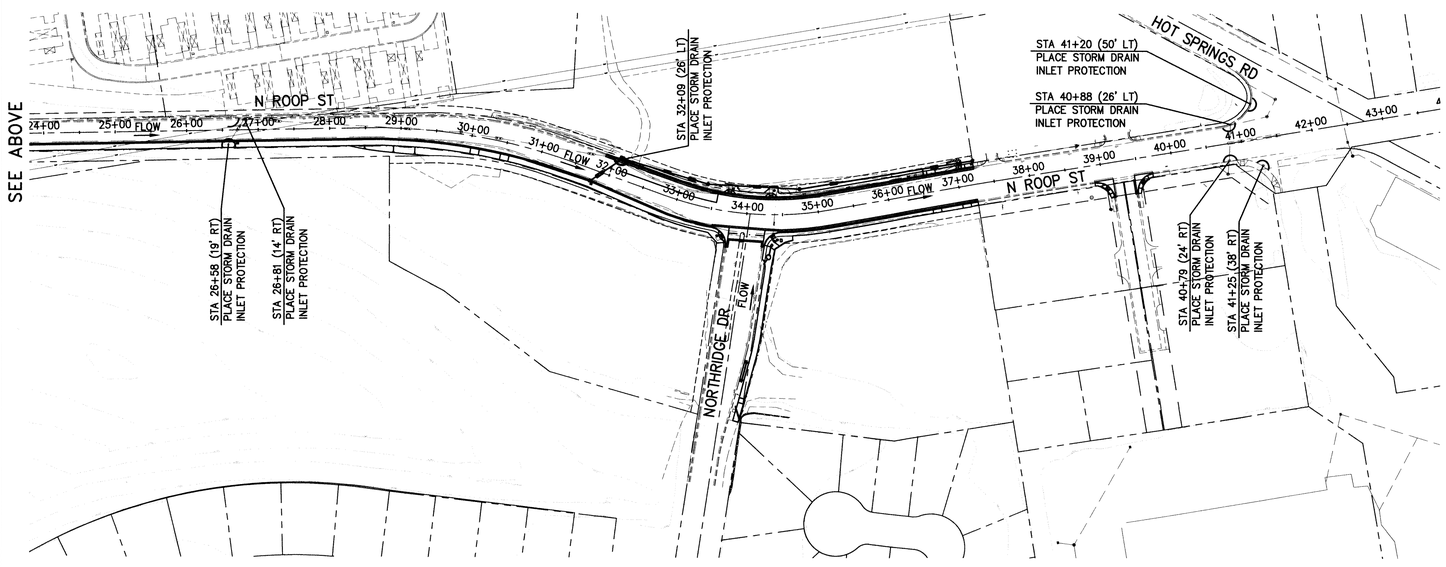
NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

H:\Projects\3.0907 Roop st northridge sidewalk\dwg\3-0907bs1.dwg, 02-NDX, 5/10/2012 1:57:49 PM, hdoyd

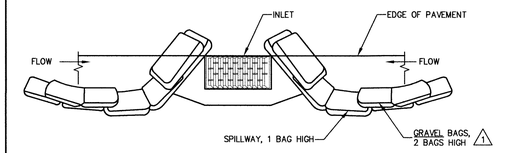
STORMWATER PROTECTION PLAN

SCALE: 1"=100'

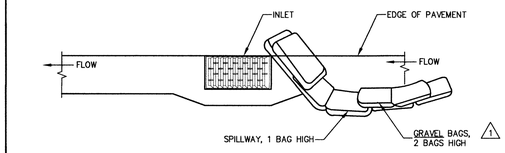


STORMWATER PROTECTION PLAN

SCALE: 1"=100'



TYPICAL PROTECTION FOR INLET ON SUMP
NTS



TYPICAL PROTECTION FOR INLET ON GRADE
NTS

NOTES:

1. INTENDED FOR TEMPORARY SHORT-TERM USE.
2. USE TO MANAGE CURB WATER FLOW.
3. SEDIMENT CAPTURED BEHIND GRAVEL BAGS SHALL BE REMOVED WEEKLY DURING CONSTRUCTION. 1
4. INLET PROTECTION MUST BE PROPERLY MAINTAINED WHILE IN PLACE AND REMOVED WHEN REQUIREMENTS OF NDEP PERMIT HAVE BEEN MET.
5. GRAVEL BAGS SHALL BE FILLED WITH 3/4 INCH WASHED ROCK. 1

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	GRAVEL	2/12	STORM DRAIN INLET PROTECTION (MOFDIFIED)	CARSON CITY
				DRAWING NO. C-4.1.7
APPROVED BY:		7/09		DATE 7/2009

STORM WATER NOTES:

1. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) INCLUDING DEVELOPING, SUBMITTING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPLIANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2008).
2. ALL DISTURBED SOILS SHALL BE RESEEDED UPON COMPLETION OF CONSTRUCTION UNLESS OTHERWISE SPECIFIED.

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=100'
SCALE (VERT): N/A
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907

STORMWATER PROTECTION PLAN

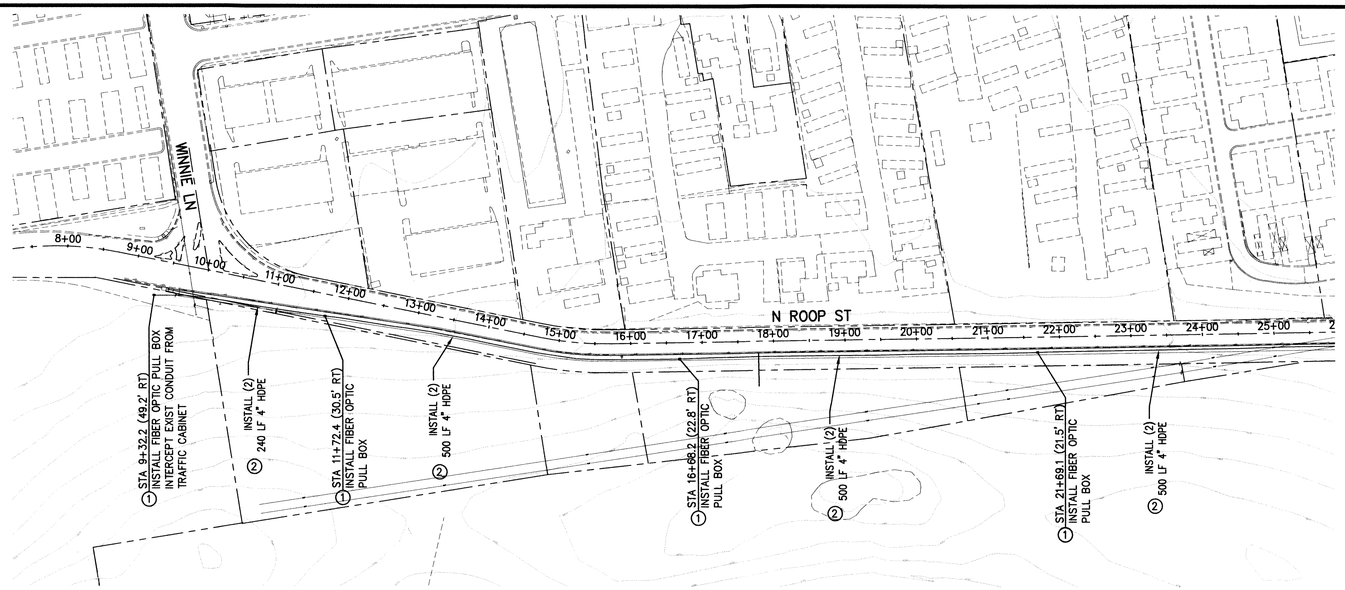
SHEET 3 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

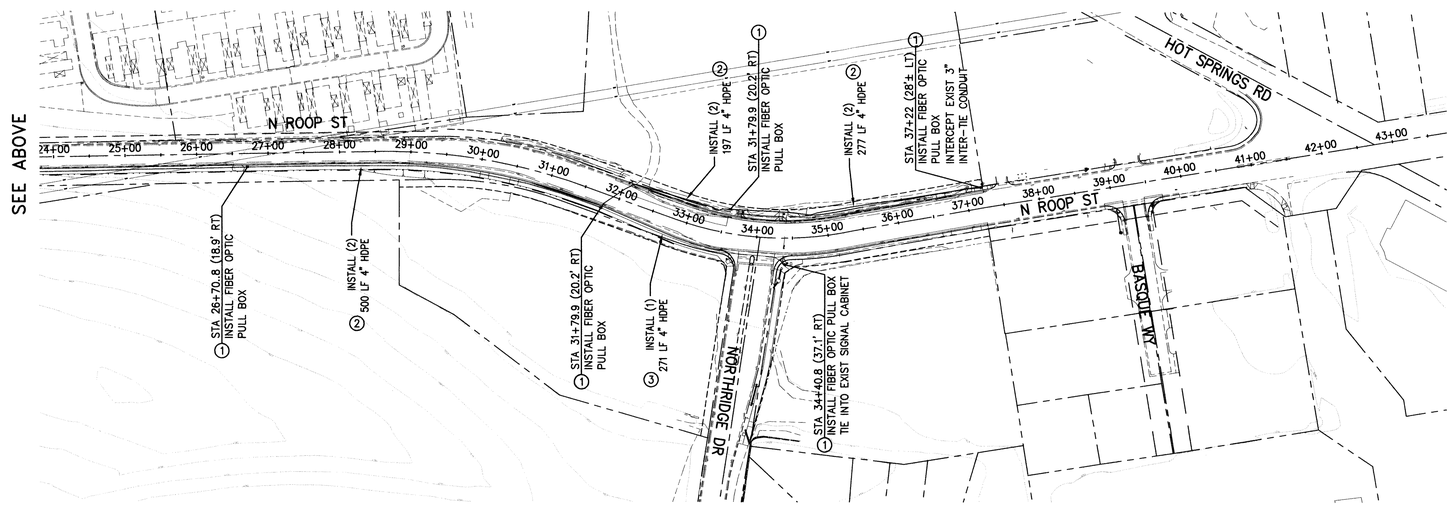
FEDERAL PROJECT NUMBER: STP-0025(021)

H:\Projects\3-0907 Roop st northridge sidewalk\dwg\3-0907bs1.dwg, 03-swppp1, 5/10/2012 1:37:05 PM, bdryd



FIBER OPTIC CONDUIT PLAN

SCALE: 1"=100'



FIBER OPTIC CONDUIT PLAN

SCALE: 1"=100'

CONSTRUCTION NOTES

1. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
2. INSTALL TWO (2) FIBER OPTIC CONDUITS PER DETAIL 1 SHEET 5.
3. INSTALL SINGLE FIBER OPTIC CONDUIT PER DETAIL 1 SHEET 5.

DESIGNED BY:	BD
DRAWN BY:	BD
CHECKED BY:	RF
DWG NO.:	3-0907BS1
SCALE (HORIZ):	1"=100'
SCALE (VERT):	N/A
PLOT DATE:	2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907

FIBER OPTIC CONDUIT PLAN

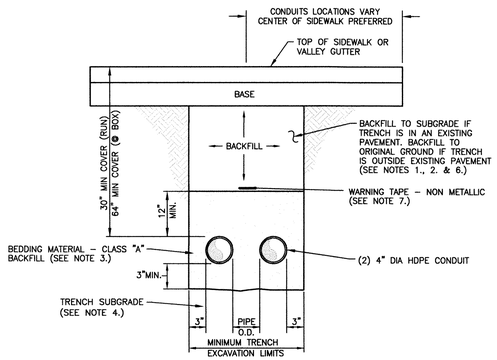
SHEET 4 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

H:\Projects\3.0907 Roop at northridge sidewalk\dwg\3-0907bs1.dwg, 04-fiber, 5/10/2012 1:36:06 PM, ddyal



TYPICAL TRENCH SECTION

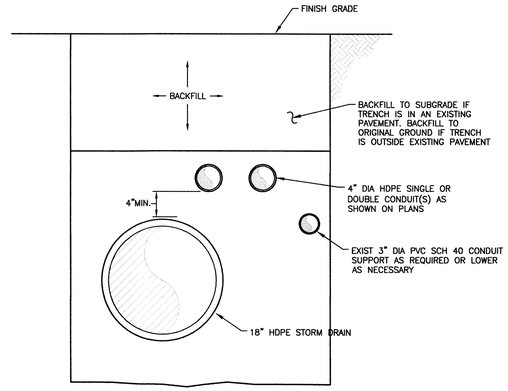
NTS

NOTES:

1. WATER DENSIFIED BACKFILL AND TUNNELING SHALL BE BY SPECIAL PROVISION ONLY.
2. BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E BACKFILL AS SPECIFIED IN SUBSECTION 200.03.06 OF THE SSPWC. MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305.10 OF THE SSPWC AND DENSIFIED TO 90% RELATIVE COMPACTION.
3. BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE SSPWC. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION.
4. PLANS SHALL INCLUDE A DETAIL FOR SUBGRADE STABILIZATION INCLUDING BACKFILL MATERIAL, STRUCTURAL GEOTEXTILE FILTER FABRIC AND MODIFIED CUTOFF COLLARS WHEN POTENTIAL FOR UNSTABLE SUBGRADES EXIST, SUBJECT TO THE APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
5. FOR TRENCHES IN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL (DWG. No. C-5.1.6).
6. FOR THE PURPOSE OF PAYMENT; EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON THESE STANDARD DRAWINGS, AND NO ADDITIONAL COMPENSATION WILL BE MADE. SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY, BUT THERE WILL BE NO ADDITIONAL PAYMENT. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
7. PLACE NON METALLIC WARNING TAPE 1 FOOT ABOVE ALL BURIED PIPES AND CONDUITS.
8. DETECTABLE PULL TAPE SHALL CONTAIN 22 GAUGE (MINIMUM THICKNESS) TIN COATED COPPER. INSULATION SHALL BE 0.008" MIN THICK POLYMER. PULL TAPE SHALL HAVE A PULL STRENGTH OF 1250 LBS. MIN. PULL TAPE COLOR SHALL BE ORANGE W/ FOOTAGE MARKINGS. SPLICES SHALL NOT BE ALLOWED.

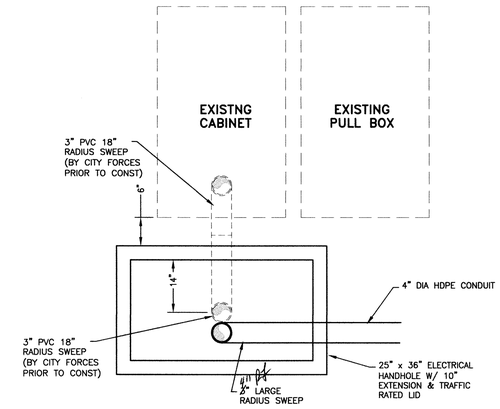
FIBER OPTIC CONDUIT TRENCH AND BACKFILL

N.T.S. 1/5



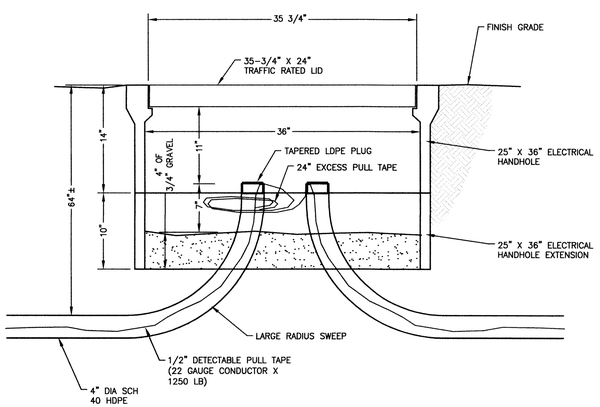
JOINT TRENCH

N.T.S. 3/5



CABINET CONNECTION

N.T.S. 5/5

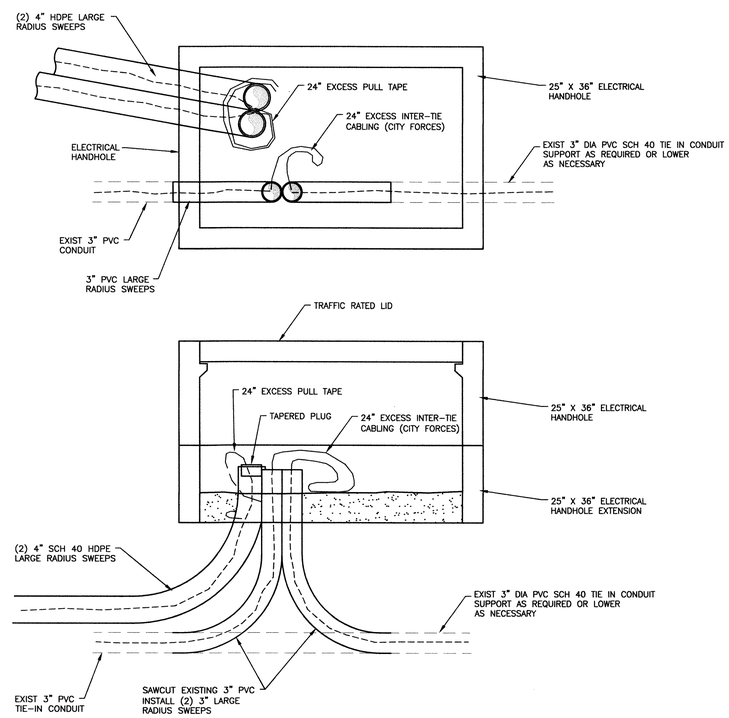


NOTES:

1. BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E BACKFILL AS SPECIFIED IN SUBSECTION 200.03.06 OF THE SSPWC. MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305.10 OF THE SSPWC AND DENSIFIED TO 90% RELATIVE COMPACTION.
2. BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE SSPWC. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION.
3. FOR THE PURPOSE OF PAYMENT; EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON THESE STANDARD DRAWINGS, AND NO ADDITIONAL COMPENSATION WILL BE MADE. SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY, BUT THERE WILL BE NO ADDITIONAL PAYMENT. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
4. PLACE NON METALLIC WARNING TAPE 1 FOOT ABOVE ALL BURIED PIPES AND CONDUITS.
5. TRACER WIRE SHALL BE 12 GAUGE (MINIMUM THICKNESS) INSULATED SOLID COPPER OR COPPER-CLAD STEEL CORE WIRE. INSULATION SHALL BE 30 MIL HDPE. PLANS SHALL SPECIFY WIRE STRENGTH AND INSULATION THICKNESS FOR BORING APPLICATIONS. SPLICES SHALL BE CONNECTED BY WIRE NUTS, SEALED WITH AQUA SEAL OR SILICON FILLED, AND DOUBLE WRAPPED WITH U/L LISTED ELECTRICAL TAPE. TRACER WIRE COLOR SHALL BE, BLUE FOR WATER, PURPLE FOR RECLAIMED WATER, AND GREEN FOR SEWER.

FIBER OPTIC HANDHOLE

N.T.S. 2/5



NOTES:

1. PUBLIC WORKS TO REMOVE TIE IN CABLE PRIOR TO TIE IN. CONTRACTOR TO SCHEDULE WITH JAMES JACKLETT AT 775-283-7381 24 HOURS PRIOR TO CUTTING CONDUIT.

INTERTIE CONNECTION

N.T.S. 4/5

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): N/A
SCALE (VERT): N/A
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

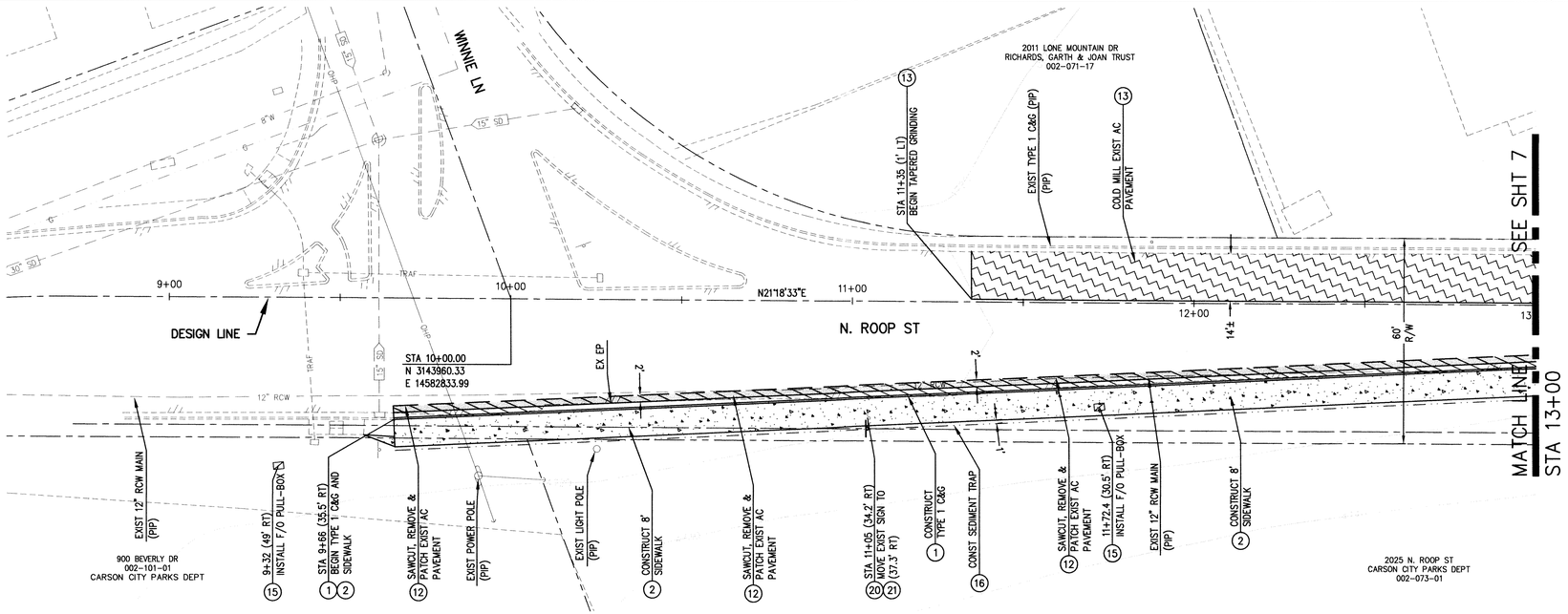
FEDERAL PROJECT NUMBER: STP-0025(021)

NORTH ROOP STREET ENHANCEMENT PROJECT
PROJECT No. 3-0907

FIBER OPTIC CONDUIT DETAILS

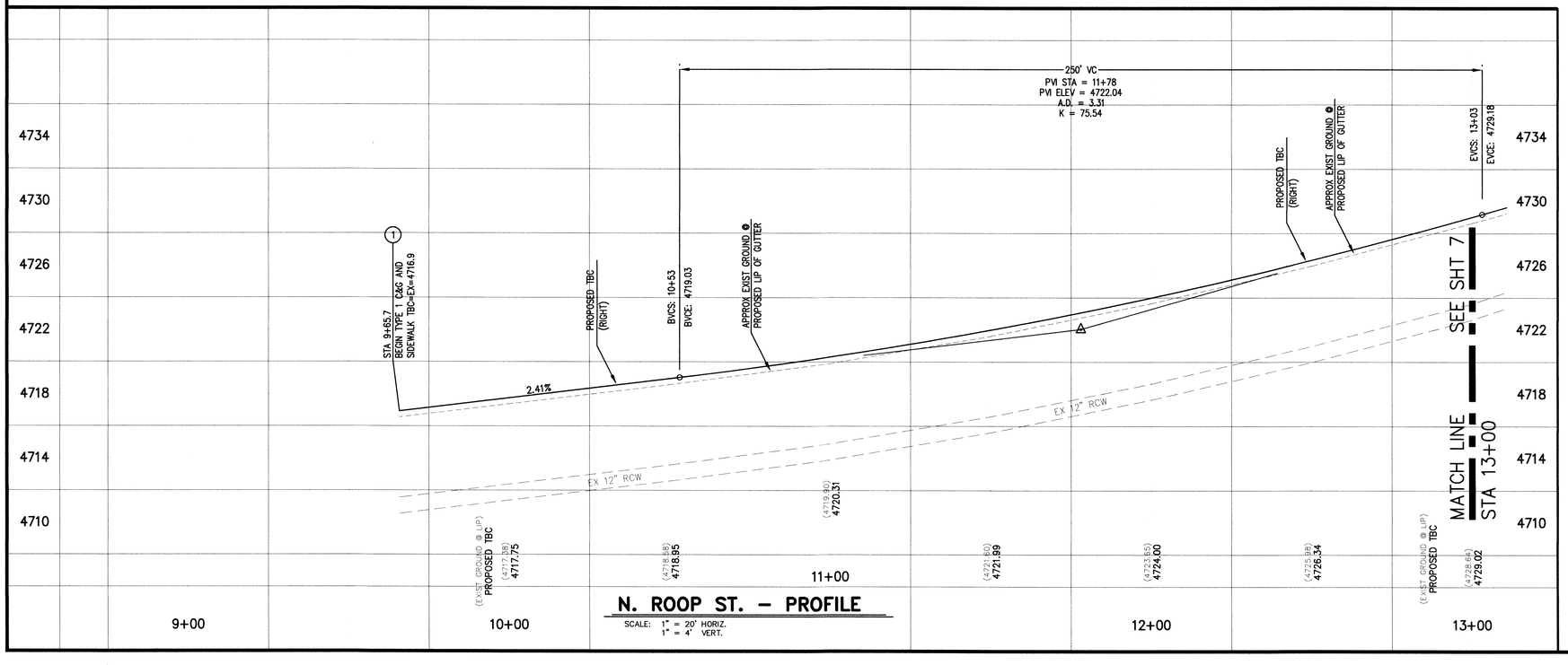
SHEET 5 OF 23

H:\Projects\3.0907 Roop at northridge sidewalk\dwg\3-0907bs1.dwg, 05-fiber01, 5/10/2012 1:35:14 PM, bdsyel



N. ROOP ST. – PLAN

SCALE: 1" = 20'



N. ROOP ST. – PROFILE

SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. GRIND AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL 2 SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. MODIFY TRAFFIC SIGNAL PEDESTRIAN BUTTON SYSTEM PER DETAIL 2 SHEET 15.
25. CLEARANCE BETWEEN PROTRUDING OBJECT AND BACK OF SIDEWALK SHALL BE 48 INCHES MINIMUM PER DETAIL 3 SHEET 14.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=20'
SCALE (VERT): 1"=4'
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

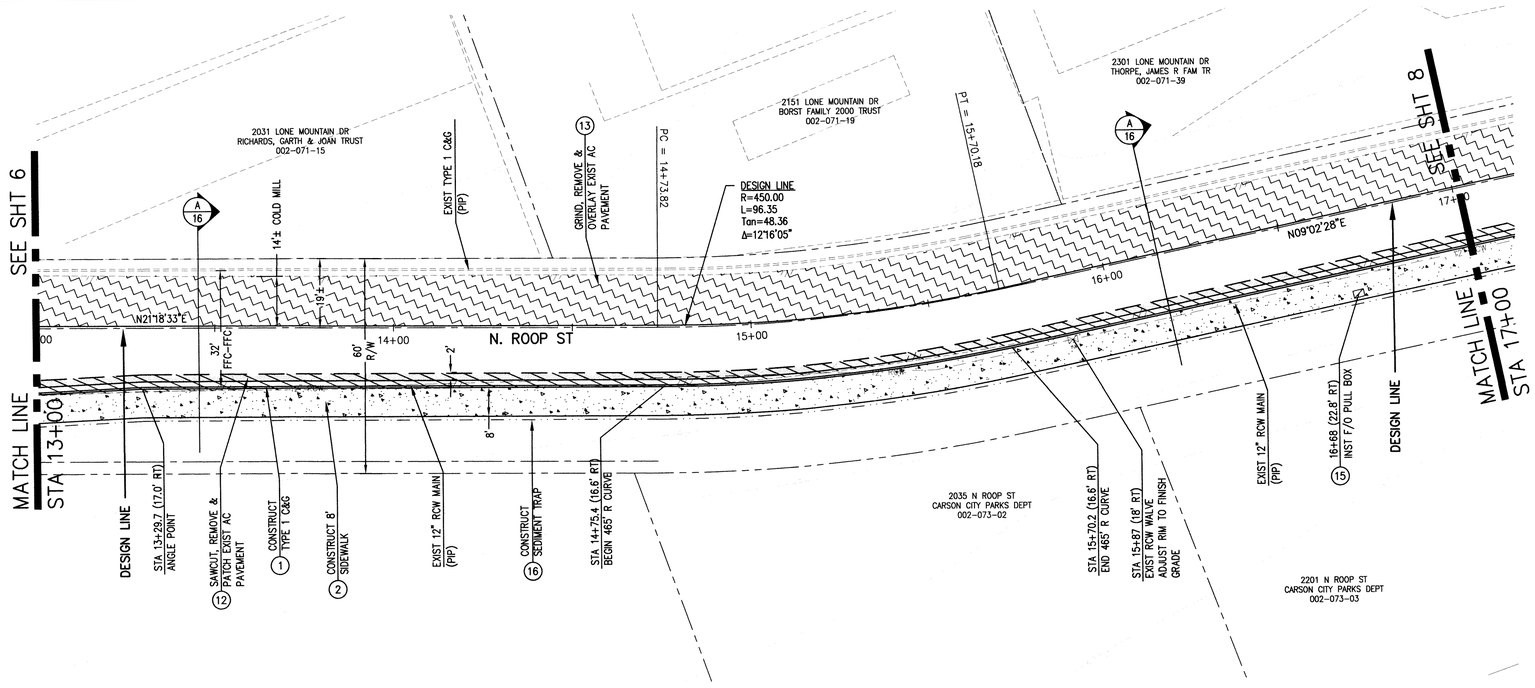
FOR BIDDING ONLY

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

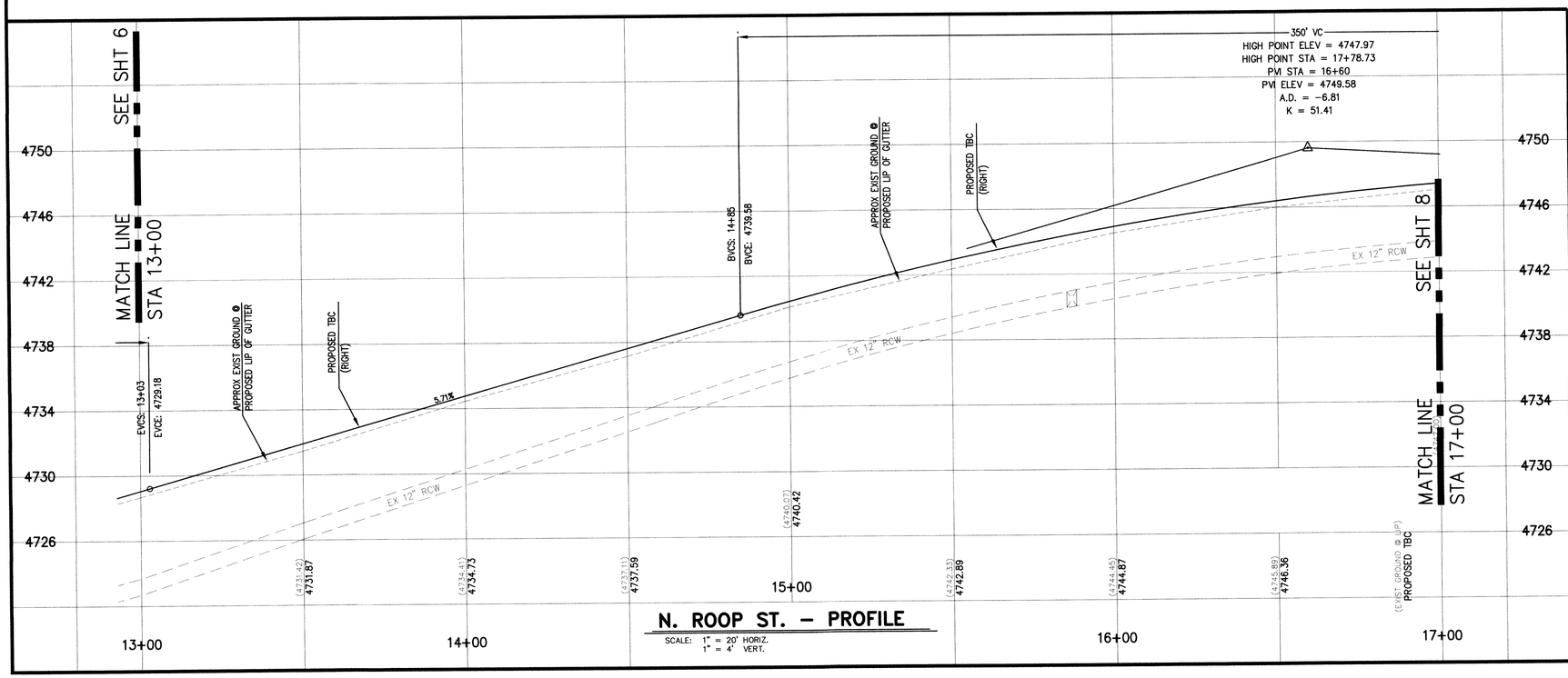
NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907
ROOP STREET
PLAN & PROFILE
STA 9+00 to STA 13+00

SHEET 6 OF 23



N. ROOP ST. – PLAN

SCALE: 1" = 20'



N. ROOP ST. – PROFILE

SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

SCALE
20 10 20
HORIZ: 1" = 20'

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. GRIND AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL 2 SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. MODIFY TRAFFIC SIGNAL PEDESTRIAN BUTTON SYSTEM PER DETAIL 2 SHEET 15.
25. CLEARANCE BETWEEN PROTRUDING OBJECT AND BACK OF SIDEWALK SHALL BE 48 INCHES MINIMUM PER DETAIL 3 SHEET 14.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600

DESIGNED BY:	BD
DRAWN BY:	BD
CHECKED BY:	RF
DWG NO.:	3-0907BS1
SCALE (HORIZ):	1"=20'
SCALE (VERT):	1"=4'
PLOT DATE:	2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

FOR BIDDING ONLY

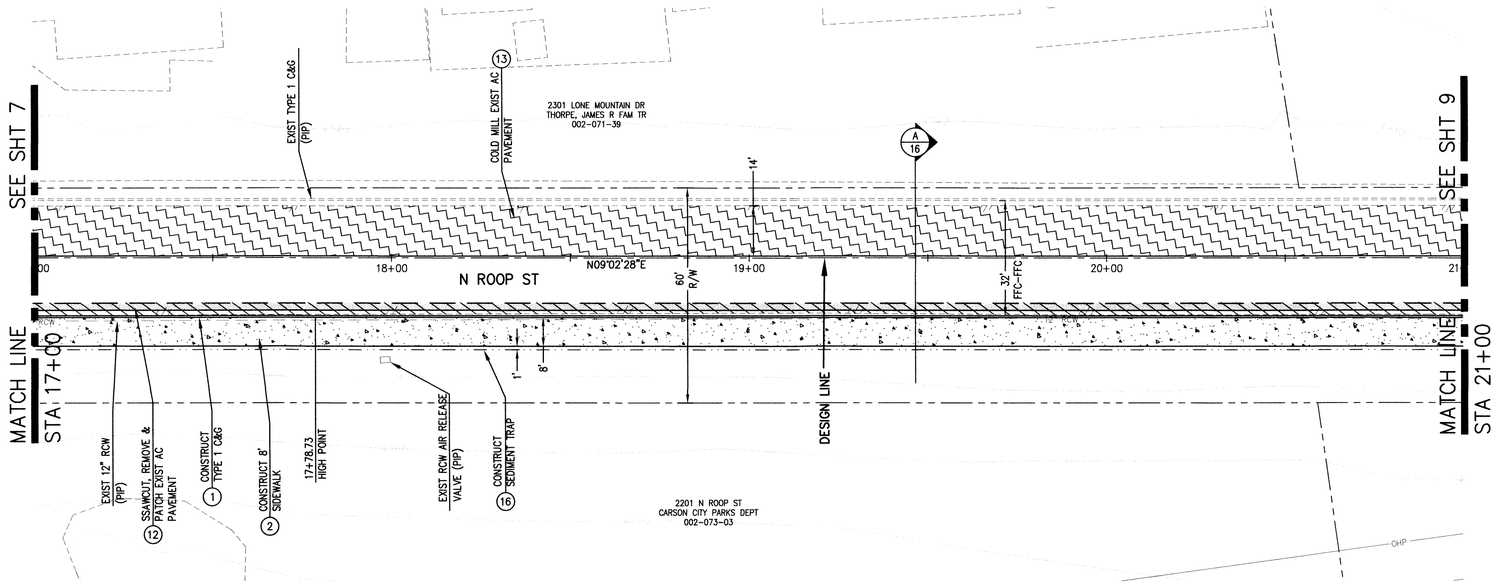
NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907

ROOP STREET
PLAN & PROFILE
STA 13+00 to STA 17+00

SHEET 7 OF 23



N. ROOP ST. – PLAN

SCALE: 1" = 20'

N. ROOP ST. – PROFILE

SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

SCALE
20 0 10 20
HORIZ: 1" = 20'

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. GRIND AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL 2 SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. MODIFY TRAFFIC SIGNAL PEDESTRIAN BUTTON SYSTEM PER DETAIL 2 SHEET 15.
25. CLEARANCE BETWEEN PROTRUDING OBJECT AND BACK OF SIDEWALK SHALL BE 48 INCHES MINIMUM PER DETAIL 3 SHEET 14.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=20'
SCALE (VERT): 1"=4'
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907
ROOP STREET
PLAN & PROFILE
STA 17+00 to STA 21+00

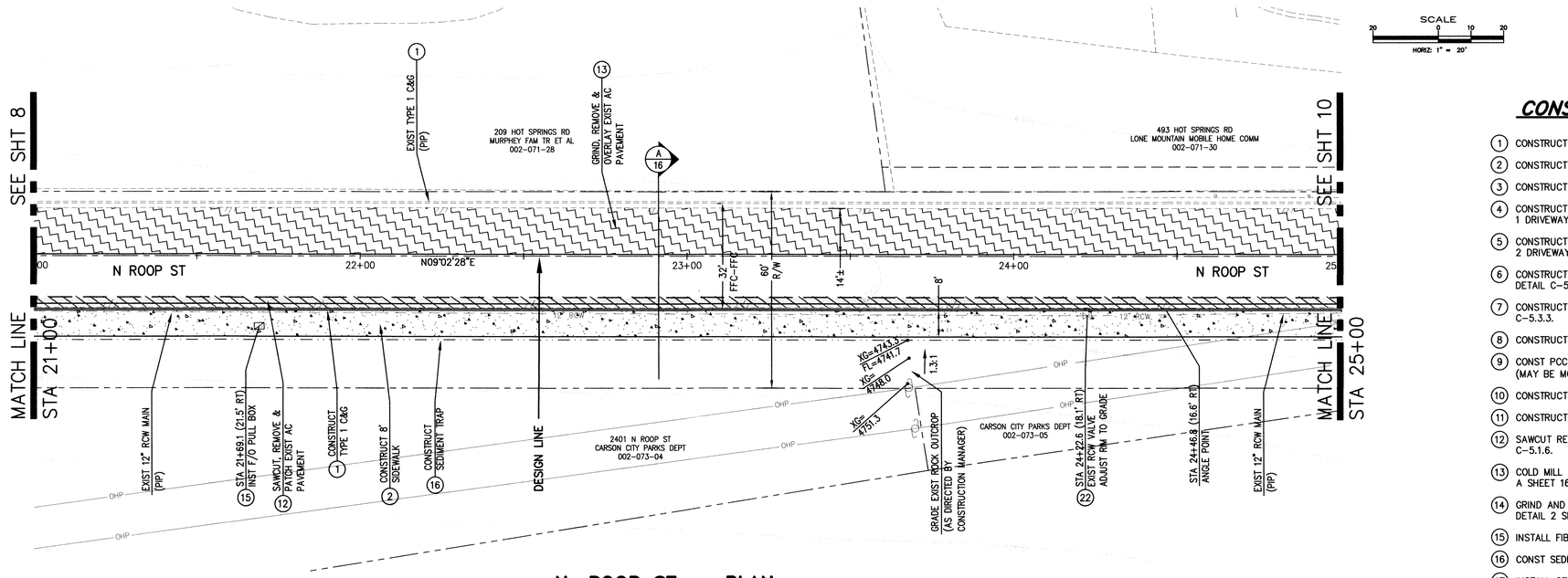
SHEET 8 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

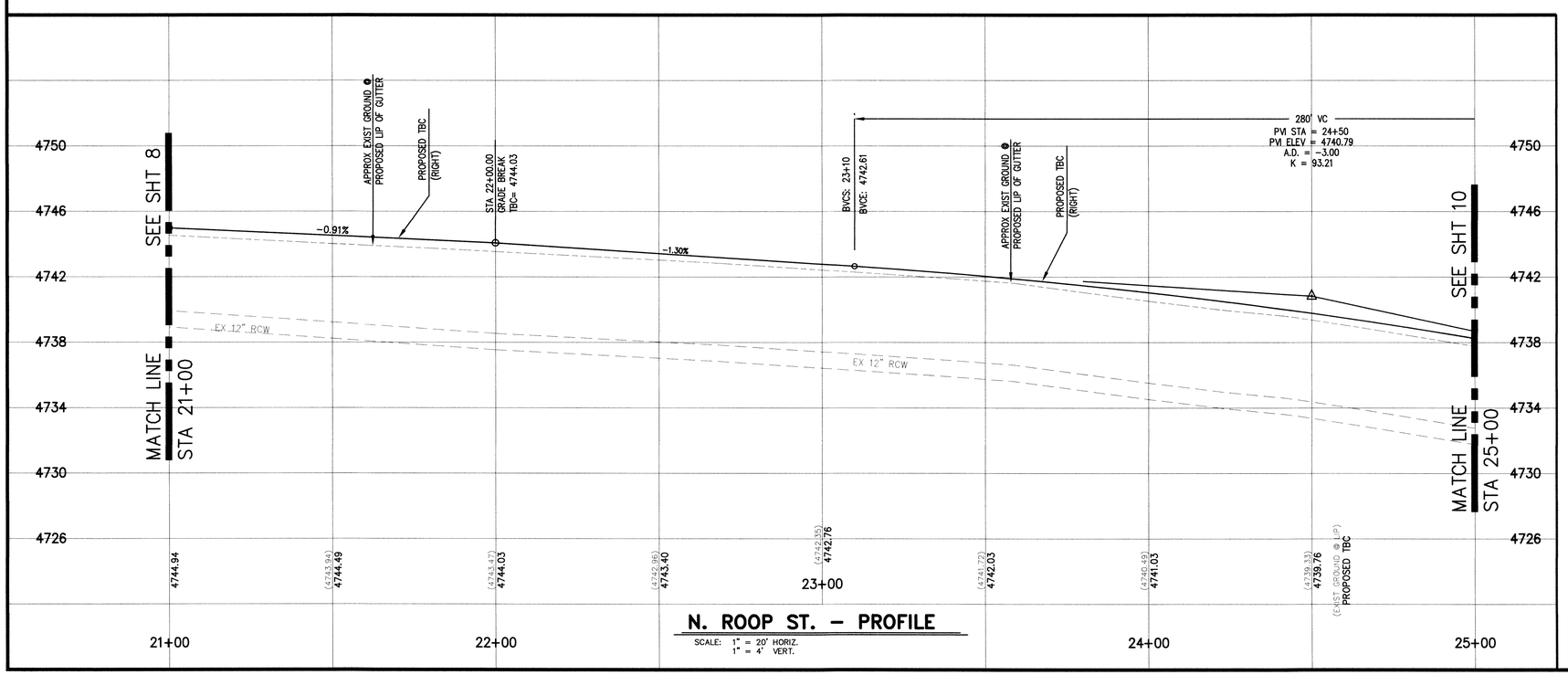
FEDERAL PROJECT NUMBER: STP-0025(021)

H:\Projects\3.0907 Roop st northridge sidewalk\dwg\3-0907bs14.dwg, 08-R14+00, 5/10/2012 1:19:47 PM, bdoyal



N. ROOP ST. – PLAN

SCALE: 1" = 20'



N. ROOP ST. – PROFILE

SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. GRIND AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL 2 SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. MODIFY TRAFFIC SIGNAL PEDESTRIAN BUTTON SYSTEM PER DETAIL 2 SHEET 15.
25. CLEARANCE BETWEEN PROTRUDING OBJECT AND BACK OF SIDEWALK SHALL BE 48 INCHES MINIMUM PER DETAIL 3 SHEET 14.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=20'
SCALE (VERT): 1"=4'
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

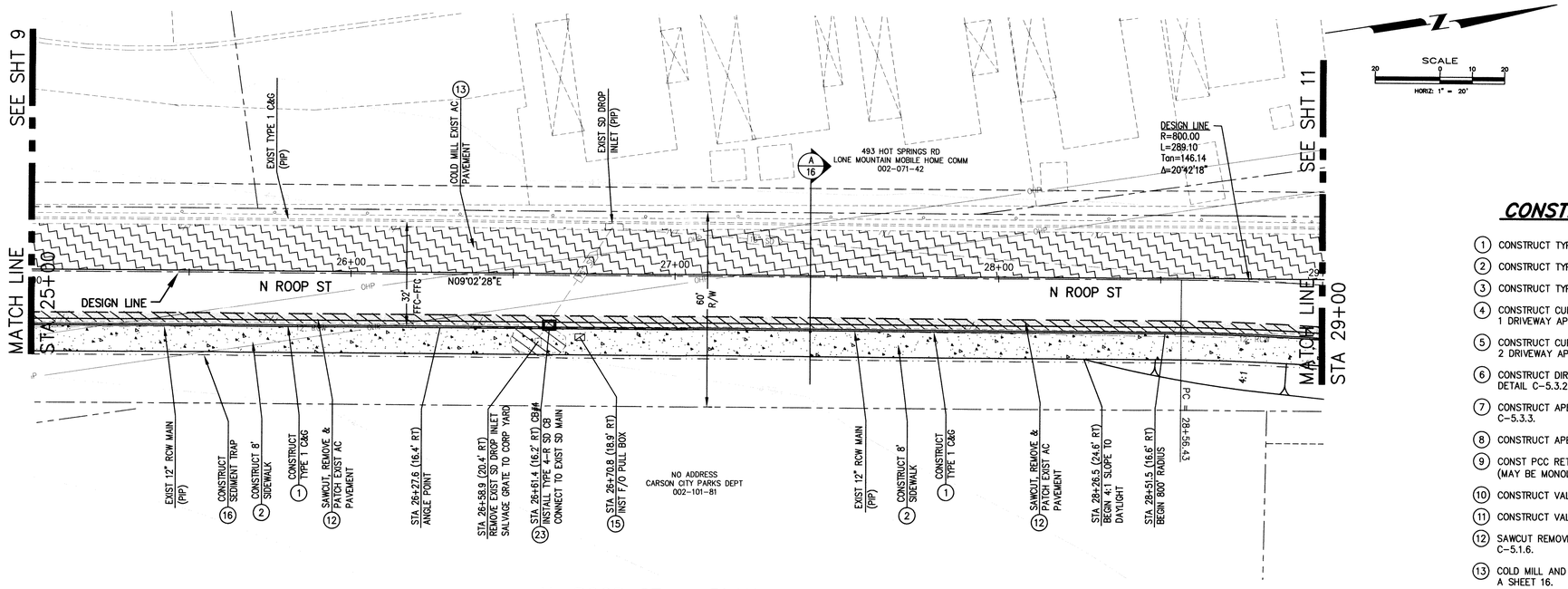
NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907
ROOP STREET
PLAN & PROFILE
STA 21+00 to STA 25+00

SHEET 9 OF 23

FOR BIDDING ONLY

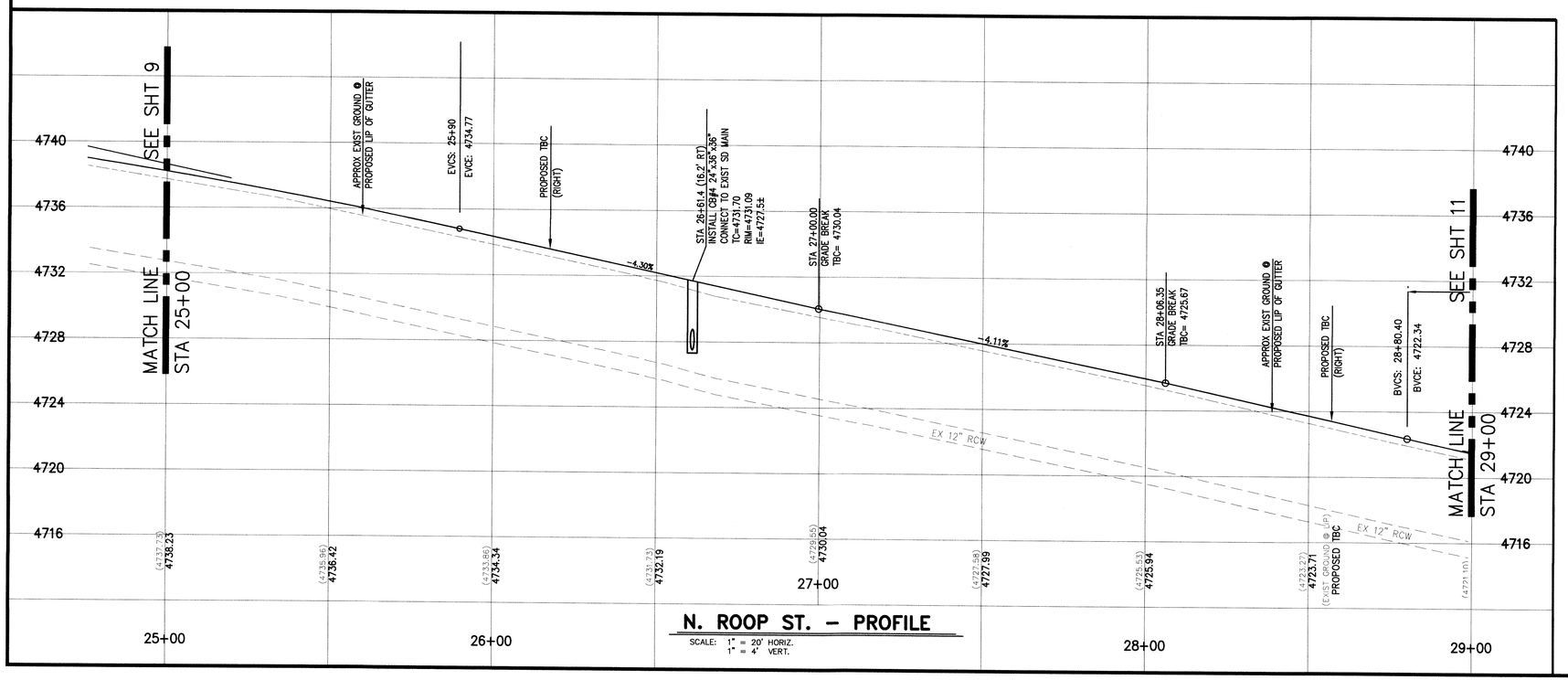
NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)



N. ROOP ST. – PLAN

SCALE: 1" = 20'



N. ROOP ST. – PROFILE

SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. GRIND AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL 2 SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. MODIFY TRAFFIC SIGNAL PEDESTRIAN BUTTON SYSTEM PER DETAIL 2 SHEET 15.
25. CLEARANCE BETWEEN PROTRUDING OBJECT AND BACK OF SIDEWALK SHALL BE 48 INCHES MINIMUM PER DETAIL 3 SHEET 14.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=20'
SCALE (VERT): 1"=4'
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER – STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

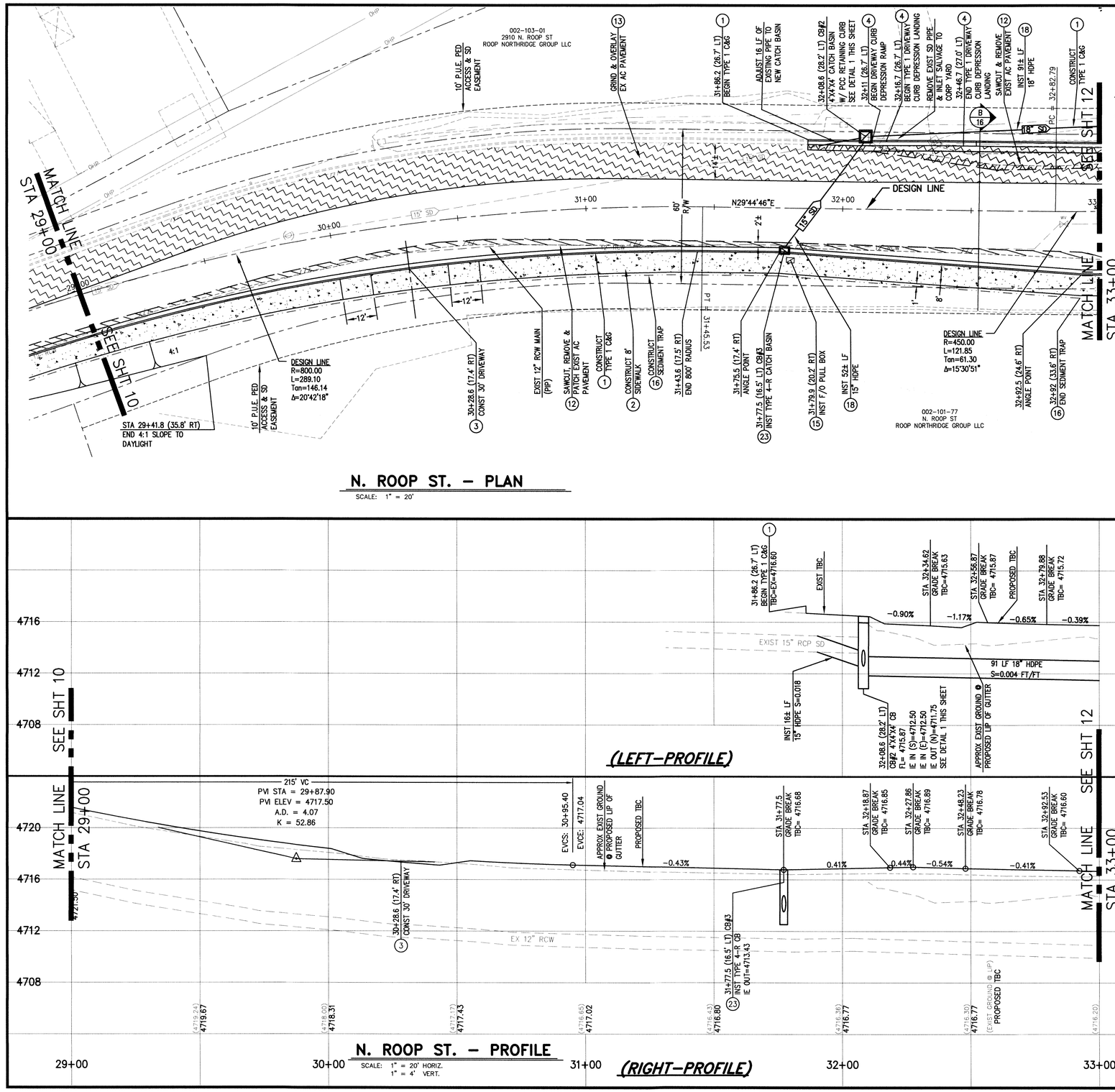
NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907
ROOP STREET
PLAN & PROFILE
STA 25+00 to STA 29+00

SHEET 10 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)



N. ROOP ST. – PLAN

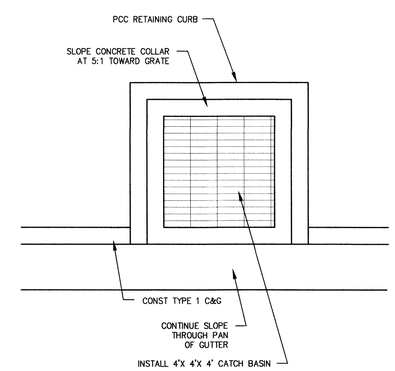
SCALE: 1" = 20'

N. ROOP ST. – PROFILE

SCALE: 1" = 20' HORIZ.
1" = 4' VERT.

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. COLD MILL AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL A SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. ADJUST PEDESTRIAN BUTTON HEADS TO FINISH GRADE.



CATCH BASIN #2

N.T.S. (1/11)

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

DESIGNED BY:	BD
DRAWN BY:	BD
CHECKED BY:	RF
DWG NO.:	3-0907BS1
SCALE (HORIZ):	1" = 20'
SCALE (VERT):	1" = 4'
PLOT DATE:	2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

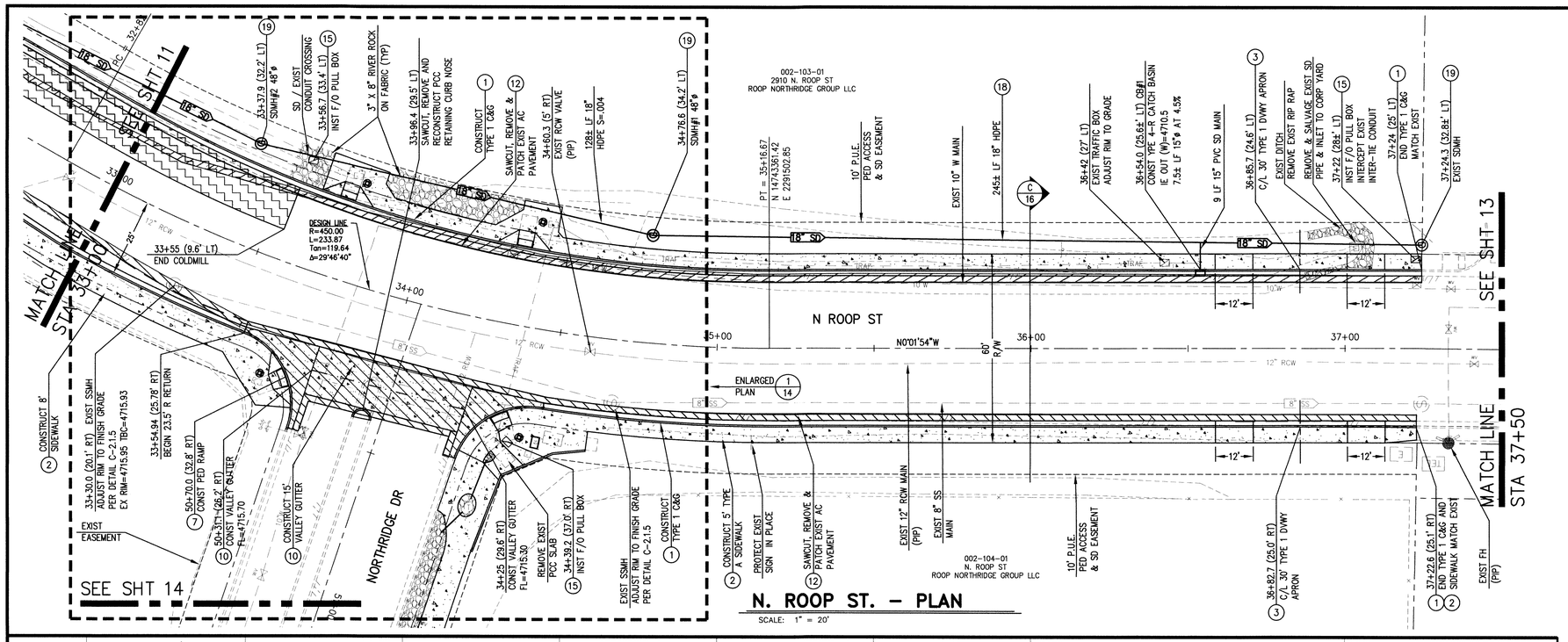
NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907
ROOP STREET
PLAN & PROFILE
STA 29+00 to STA 33+00

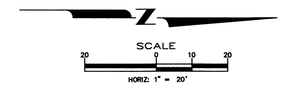
SHEET 11 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

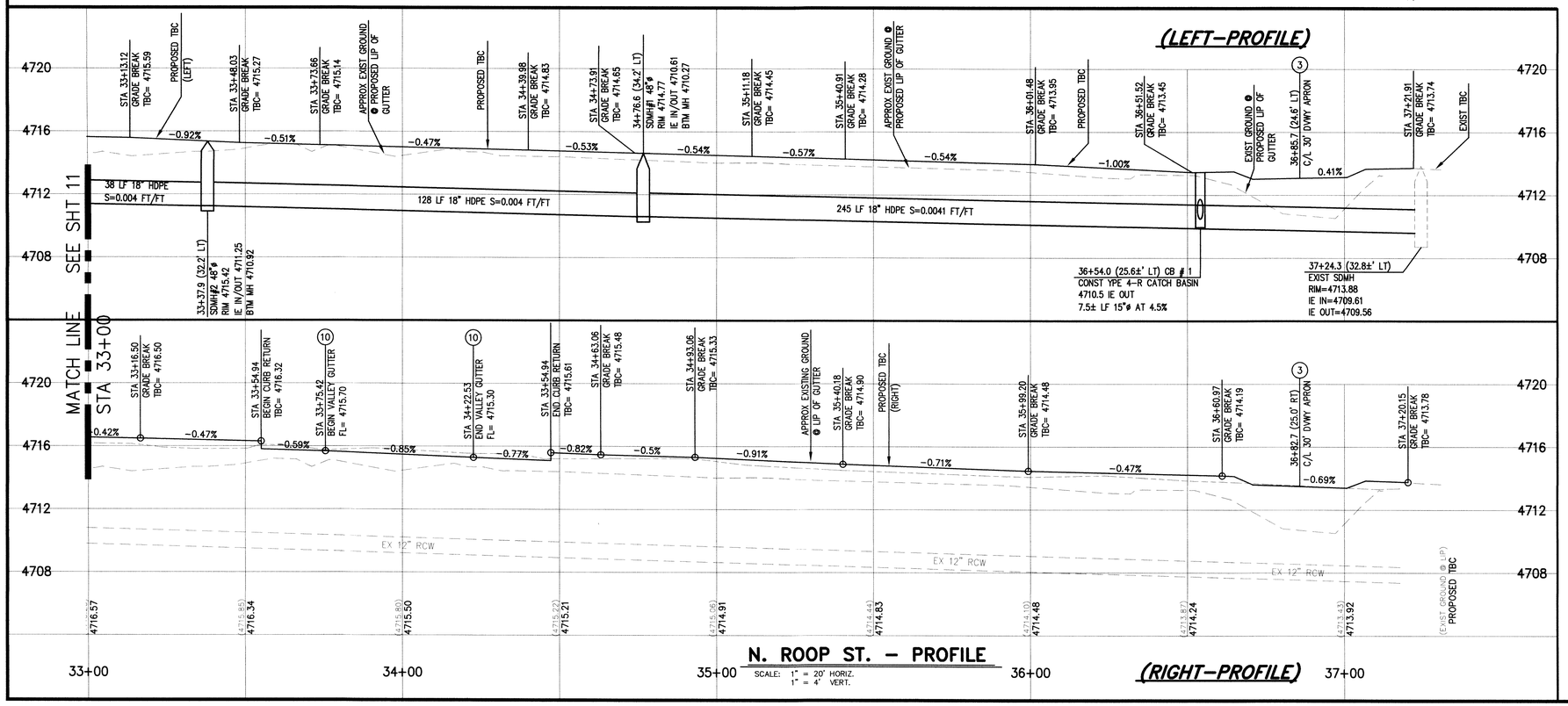
FEDERAL PROJECT NUMBER: STP-0025(021)





CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. GRIND AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL 2 SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. MODIFY TRAFFIC SIGNAL PEDESTRIAN BUTTON SYSTEM PER DETAIL 2 SHEET 15.
25. CLEARANCE BETWEEN PROTRUDING OBJECT AND BACK OF SIDEWALK SHALL BE 48 INCHES MINIMUM PER DETAIL 3 SHEET 14.



Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=20'
SCALE (VERT): 1"=4'
PLOT DATE: 2012MAY10

CARSON CITY PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA ROBERT D. FELLOWS Exp: 6/30/13 CIVIL No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

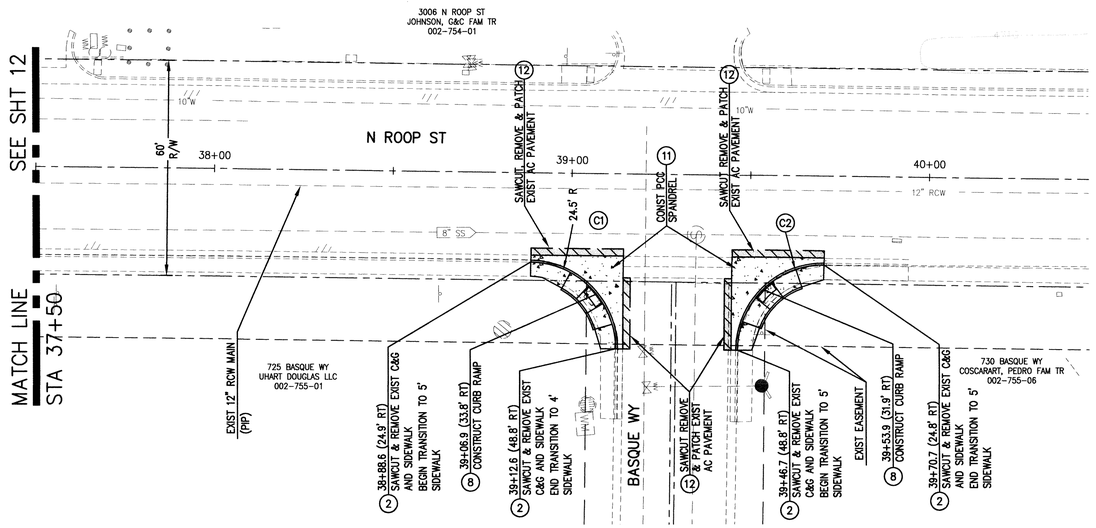
NORTH ROOP STREET ENHANCEMENT PROJECT
PROJECT No. 3-0907
ROOP STREET
PLAN & PROFILE
STA 33+00 to STA 37+50

SHEET 12 OF 23

FOR BIDDING ONLY

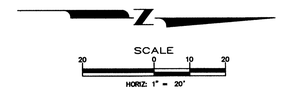
NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)



N. ROOP ST – PLAN

SCALE: 1"=20'



CURVE DATA

CURVE	RADIUS	DELTA	LENGTH	TANGENT
C1	24.00'	89°52'22"	37.65'	23.95'
C2	24.00'	90°07'47"	37.75'	24.05'

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. GRIND AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL 2 SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. MODIFY TRAFFIC SIGNAL PEDESTRIAN BUTTON SYSTEM PER DETAIL 2 SHEET 15.
25. CLEARANCE BETWEEN PROTRUDING OBJECT AND BACK OF SIDEWALK SHALL BE 48 INCHES MINIMUM PER DETAIL 3 SHEET 14.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=20'
SCALE (VERT): 1"=4'
PLOT DATE: 2012APR18

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER – STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

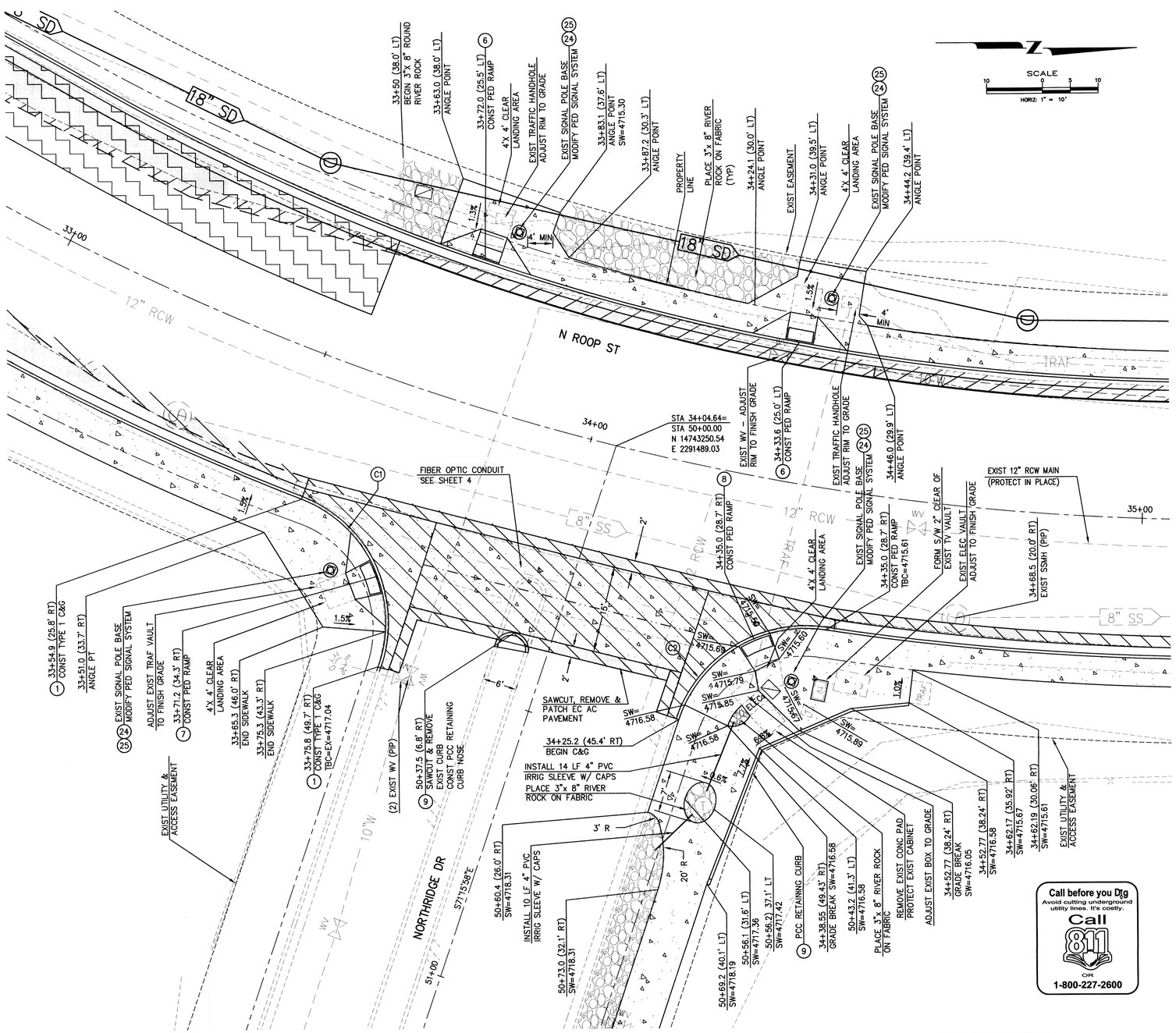
NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907
ROOP STREET
PLAN
STA 37+50 to STA 40+00

SHEET 13 OF 23

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

H:\Projects\3-0907 Roop at northridge sidewalk\dwg\3-0907bs1.dwg, 13-R37+50, 5/10/2012 1:11:16 PM, sabyat



ENLARGED PLAN

SCALE: 1"=10'

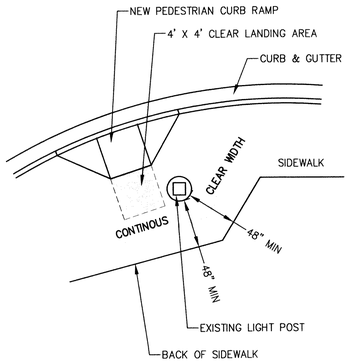
1/14

CURVE DATA

CURVE	RADIUS	DELTA	LENGTH	TANGENT
C1	23.50'	87°29'56"	35.89'	22.50'
C2	24.00'	79°56'33"	33.49'	20.12'

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. GRIND AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL 2 SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. MODIFY TRAFFIC SIGNAL PEDESTRIAN BUTTON SYSTEM PER DETAIL 2 SHEET 15.
25. CLEARANCE BETWEEN PROTRUDING OBJECT AND BACK OF SIDEWALK SHALL BE 48 INCHES MINIMUM PER DETAIL 2 SHEET 14.



NOTES:

1. THE MINIMUM CLEAR WIDTH OF THE PEDESTRIAN PATH SHALL BE 48" MIN, EXCLUSIVE OF THE WIDTH OF CURB.

PEDESTRIAN BUTTON / SIGNAL

N.T.S.

2/14

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=20'
SCALE (VERT): N/A
PLOT DATE: 2012MAY02

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907

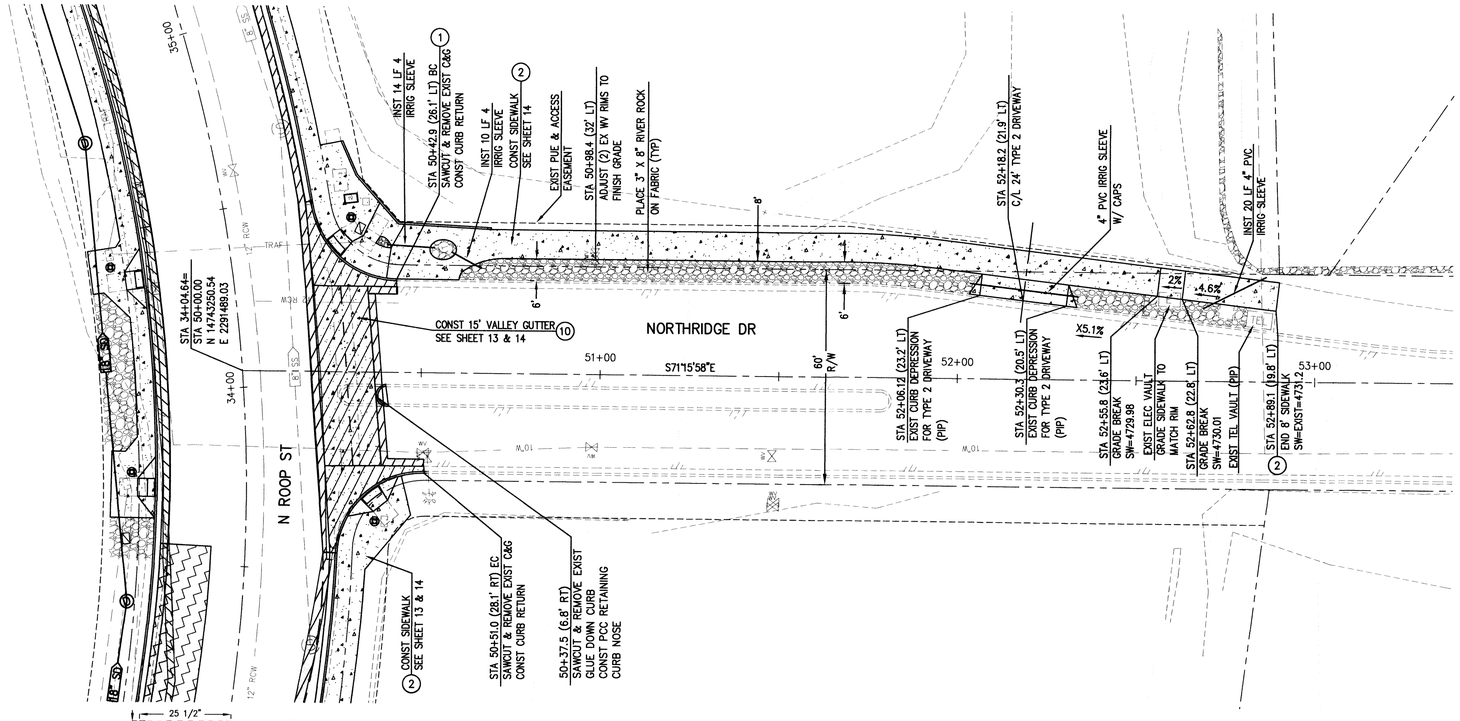
ROOP STREET
ENLARGED PLAN
STA 33+00 to STA 35+00

SHEET 14 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)



NORTHRIDGE DR – PLAN

SCALE: 1"=20'

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 1 CURB & GUTTER PER DETAIL C-5.1.3.
2. CONSTRUCT TYPE A SIDEWALK PER DETAIL C-5.2.2.
3. CONSTRUCT TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
4. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 1 DRIVEWAY APRON PER DETAIL C-5.2.3.
5. CONSTRUCT CURB & GUTTER TO ACCOMMODATE FUTURE TYPE 2 DRIVEWAY APRON PER DETAIL C-5.2.4.
6. CONSTRUCT DIRECTIONAL PERPENDICULAR CURB RAMP PER DETAIL C-5.3.2.
7. CONSTRUCT APEX PERPENDICULAR CURB RAMP PER DETAIL C-5.3.3.
8. CONSTRUCT APEX PARALLEL CURB RAMP PER DETAIL C-5.3.5.
9. CONST PCC RETAINING CURB PER DETAIL C-5.3.10 (MAY BE MONOLITHIC WHEN NEXT TO SIDEWALK)
10. CONSTRUCT VALLEY GUTTER PER DETAIL C-5.1.2.
11. CONSTRUCT VALLEY GUTTER SPANDREL PER DETAIL C-5.1.2.
12. SAWCUT REMOVE AND PATCH EXISTING PAVEMENT PER DETAIL C-5.1.6.
13. COLD MILL AND OVERLAY EXISTING AC PAVEMENT PER SECTION A SHEET 16.
14. GRIND AND OVERLAY NEW AND EXISTING AC PAVEMENT PER DETAIL 2 SHEET 16.
15. INSTALL FIBER OPTIC PULL BOX PER DETAIL 2 SHEET 5.
16. CONST SEDIMENT TRAP PER SECTION A SHEET 16.
17. INSTALL STORM DRAIN CATCH BASIN.
18. INSTALL STORM DRAIN MAIN PER DETAIL C-1.2.1.
19. INSTALL STORM DRAIN MANHOLE PER DETAIL 1 SHEET 15.
20. REMOVE AND SALVAGE EXIST STREET SIGN.
21. INSTALL STREET SIGN PER DETAIL C-5.4.2.
22. ADJUST EXISTING RCW VALVE BOX RIM TO NEW FINISH GRADE PER DETAIL C-3.1.4.
23. INSTALL TYPE 4-R CATCH BASIN PER DETAIL C-4.1.5.
24. MODIFY TRAFFIC SIGNAL PEDESTRIAN BUTTON SYSTEM PER DETAIL 2 SHEET 15.
25. CLEARANCE BETWEEN PROTRUDING OBJECT AND BACK OF SIDEWALK SHALL BE 48 INCHES MINIMUM PER DETAIL 3 SHEET 14.

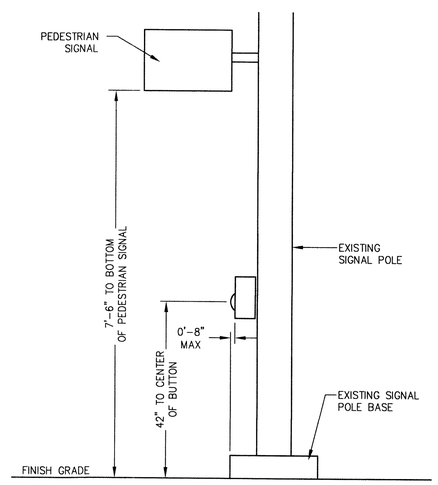
MANHOLE COMPONENTS CONFORM TO CURRENT SPECIFICATIONS, ASTM C-478 AND AASHTO M199.

FLAT TOPS AND BASE SLABS ARE DESIGNED FOR AASHTO HS-20 WHEEL LOADING.

STORM DRAIN MANHOLE

N.T.S.

1/15



NOTES:
1. SIGNAL EQUIPMENT AND PLACEMENT SHALL COMPLY WITH CHAPTER 4E OF MUTCD (2009 EDITION).

PEDESTRIAN BUTTON / SIGNAL

N.T.S.

2/15

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=20'
SCALE (VERT): N/A
PLOT DATE: 2012MAY02

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No.12497
5/1/12

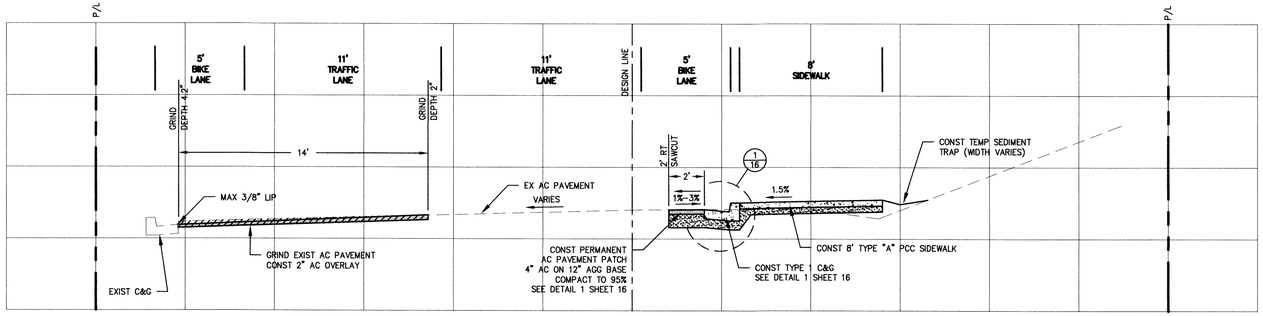
REV.	DATE	DESCRIPTION	BY	APP'D

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

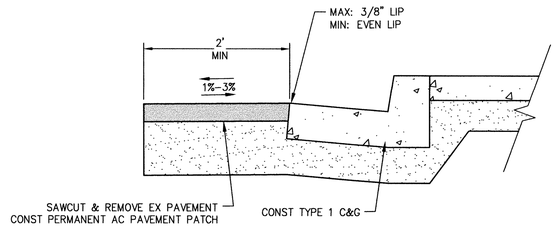
FEDERAL PROJECT NUMBER: STP-0025(021)

NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907
NORTHRIDGE DRIVE PLAN
STA 50+00 to STA 53+00



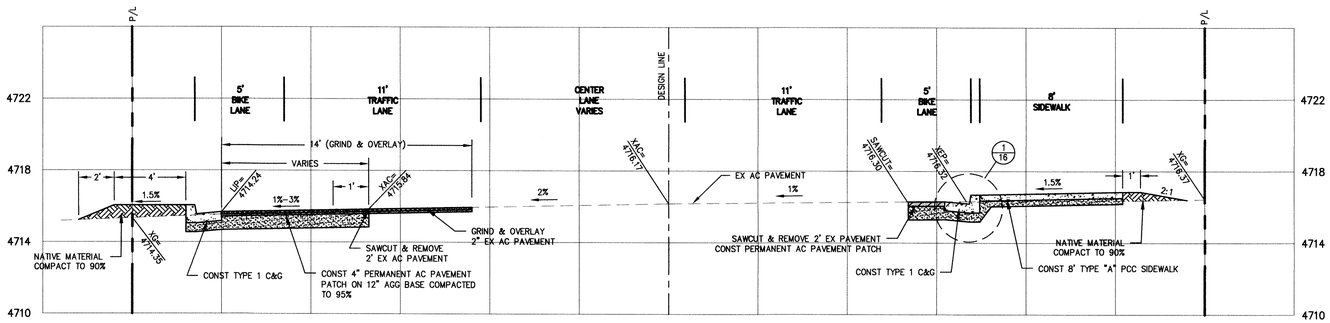
ROADWAY SECTION (STA 13+30 to STA 28+51)

SCALE: HORIZ 1"=4' VERT 1"=4' (A/16)



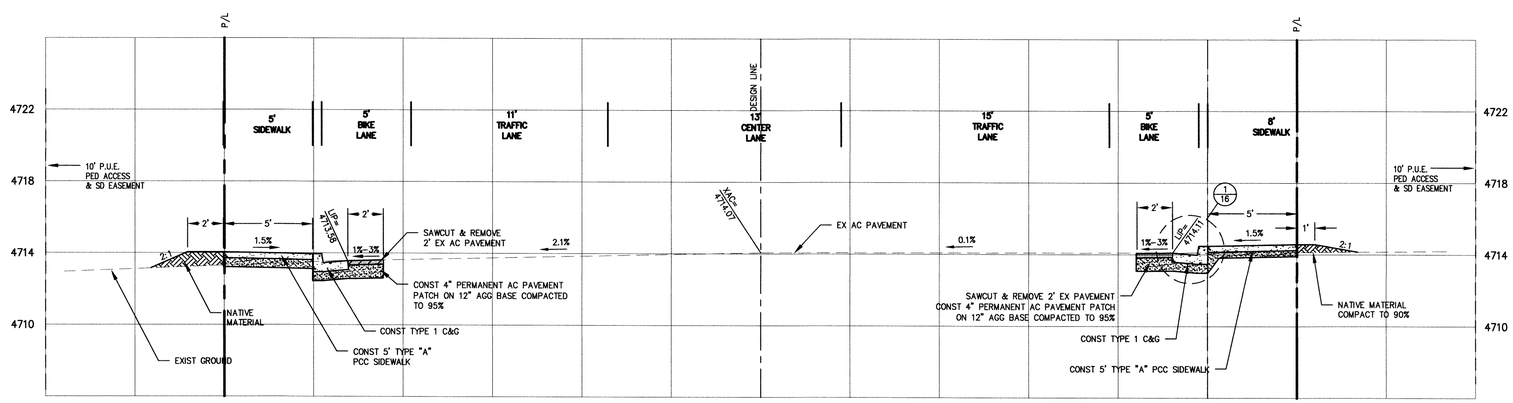
AC/CURB LIP JOINT

N.T.S. (1/16)



ROADWAY SECTION (STA 32+50)

SCALE: HORIZ 1"=4' VERT 1"=4' (B/16)



ROADWAY SECTION (STA 36+00)

SCALE: HORIZ 1"=4' VERT 1"=4' (C/16)

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=4'
SCALE (VERT): 1"=4'
PLOT DATE: 2012APR18

CARSON CITY PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER ROBERT D. FELLOWS Exp: 6/30/13 CIVIL No. 12497 STATE OF NEVADA
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET ENHANCEMENT PROJECT
PROJECT No. 3-0907

SECTIONS

SHEET 16 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

H:\Projects\3-0907 Roop at Northridge sidewalk\dwg\3-0907bs1.dwg, 16-SEC01, 5/10/2012 1:08:30 PM, bdsyd

1. ALL WORK SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (SSPWC) AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (SDPWC) AS ADOPTED BY CARSON CITY. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR PUBLIC WORKS CONSTRUCTION FROM THE CARSON CITY PERMIT CENTER PRIOR TO THE START OF CONSTRUCTION.
2. ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE CARSON CITY RIGHT-OF-WAY SHALL CONFORM TO SECTION 100.33, 332.04 AND 332.05 OF THE STANDARD SPECIFICATIONS, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE UNR T2 CENTER, TEMPORARY TRAFFIC CONTROL GUIDELINES LATEST EDITION. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CARSON CITY ENGINEERING DIVISION PRIOR TO ANY STREET CLOSURES.
3. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (811) OR (1-800-227-2600) AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH THE REQUIREMENTS OF NRS AND NAC 455 THROUGHOUT THE COURSE OF THE WORK, SEWER SERVICE LATERALS ARE NOT OWNED OR MARKED BY CARSON CITY.
4. THE CONTRACTOR SHALL CALL THE CARSON CITY ENGINEERING DIVISION (887-2300) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL ONE (1) WORKING DAY PRIOR TO REQUIRED INSPECTIONS AND TESTING. THE REQUIRED INSPECTIONS AND TESTING ARE LISTED ON THE INSPECTION RECORD ISSUED WITH EACH PERMIT. THE CONTRACTOR MUST HAVE THE PERMIT NUMBER AND THE DESCRIPTION LISTED ON THE INSPECTION RECORD TO SCHEDULE REQUIRED INSPECTIONS AND TESTING. FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE INSPECTIONS PER THE CONTRACT DOCUMENTS.
5. FINAL INSPECTIONS WILL BE PERFORMED BY CARSON CITY ENGINEERING DIVISION ACCORDING TO THE CARSON CITY INSPECTIONS AND TESTING PROCEDURES. NOTE: THESE PROCEDURES REQUIRE SUBMITTAL OF RECORD DRAWING PRINTS BY THE CONTRACTOR AND 10 WORKING DAYS TO PREPARE A FINAL PUNCH LIST. ALL CONDITIONS OF THE FINAL INSPECTION MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OR ANY APPROVAL OF A CERTIFICATE OF OCCUPANCY BY THE CARSON CITY ENGINEERING DIVISION.
6. MODIFICATIONS TO THE APPROVED PLANS REQUIRES REVIEW AND APPROVAL BY THE CARSON CITY ENGINEERING DIVISION. WORK PERFORMED WITHOUT WRITTEN APPROVAL BY CARSON CITY ENGINEERING WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE.
7. THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.
8. PLAN APPROVAL FOR SEWER AND WATER CONSTRUCTION SHALL EXPIRE ONE YEAR FROM DATE OF APPROVAL UNLESS CONSTRUCTION HAS BEEN INITIATED. (CCMC 12.06.180F, 12.01.140D)
9. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) INCLUDING DEVELOPING, SUBMITTING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPLIANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2008).

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			GENERAL NOTES	DRAWING NO. C-1.1.1
APPROVED BY:		7/09		DATE 7/2009

1. MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 204 "MANHOLES AND CATCH BASINS" OF THE SSPWC.
2. MARKING TAPE SHALL BE INSTALLED 12 INCHES ABOVE ALL STORM DRAIN PIPE. TAPE WIDTH SHALL BE 3 INCHES; THICKNESS SHALL BE FOUR (4) MIL OR GREATER AND SHALL BE GREEN AND BEAR LARGE PRINTING DENOTING "CAUTION BURIED STORM DRAIN LINE BELOW" OR EQUIVALENT WORDING.
3. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, (CURB AND GUTTER TRANSITION ONLY, ALL UNEXPOSED CONCRETE MAY BE 3000 PSI) MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.
4. REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5 INCHES MINIMUM CLEAR COVER.
5. EACH CATCH BASIN SHALL HAVE A 4 INCH ALUMINUM BLUE DISK WITH FISH IMAGE AND THE WORDS "NO DUMPING! DRAINS TO RIVER" INSTALLED ON THE TOP OF THE CURB BOX.
6. FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT, WITH MINIMAL GAPS, AS APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
7. STORM DRAINAGE IMPROVEMENTS SHALL INCORPORATE WATER QUALITY AND EROSION CONTROLS IN ACCORDANCE WITH THE NEVADA "HANDBOOK OF BEST MANAGEMENT PRACTICES".
8. PRECAST MANHOLES SECTIONS, OTHER THAN GRADE RINGS, SHALL BE JOINED WITH FLEXIBLE PLASTIC GASKET MATERIAL SUCH AS RAM-NEK, CON-SEAL OR APPROVED EQUAL PER MANUFACTURERS RECOMMENDATIONS.
9. TRACER WIRE SHALL BE ATTACHED TO ANY STORM DRAIN LATERAL WHICH IS NOT PERPENDICULAR TO THE STORM DRAIN MAIN.
10. MANHOLES LOCATED OUTSIDE PAVED AREAS SHALL REQUIRE ALL WEATHER ACCESS ROADWAY CONSISTING OF 6 INCHES TYPE 2, CLASS B AGGREGATE BASE (CONFORMING TO THE SSPWC SECTION 200.01.02) AND STORM DRAIN MANHOLE MARKERS BE INSTALLED. STORM DRAIN MANHOLE MARKERS SHALL BE GREEN CARSONITE UTILITY MARKER (CUM 375) OR RODON (FTM 375) , 5 FEET-2 INCHES (5'-2") WITH DECAL READING "STORM DRAIN MANHOLE". PLACE MARKERS ON EASEMENT LINE NEAREST TO MANHOLE OR AS DIRECTED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
11. MANHOLE CONCRETE COLLARS SHALL BE LEFT 2 1/2 INCHES TO 3 INCHES BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 AC 20 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND EVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR LOCATED IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.
12. GRATES SHALL BE PLACED OUTSIDE OF THE PEDESTRIAN TRAVELED WAY. GRATE OPENINGS SHALL NOT EXCEED 0.5 INCHES IN WIDTH OR 4 INCHES IN LENGTH. GRATES SHALL BE TRAFFIC RATED AND ADA COMPLIANT.

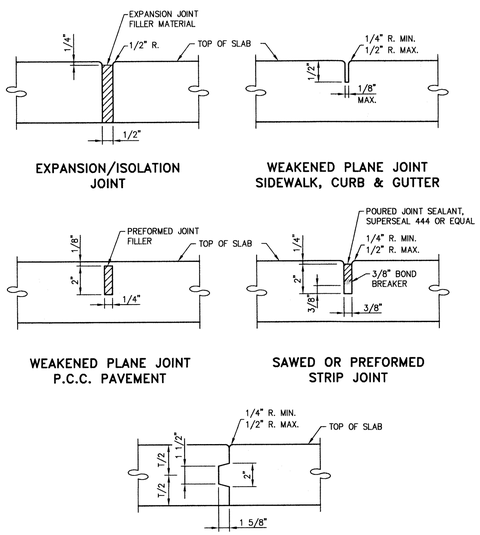
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			STORM DRAIN GENERAL NOTES (MODIFIED)	DRAWING NO. C-4.1.1
APPROVED BY:		7/09		DATE 7/2009

1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED AND APPROVED BY CARSON CITY PUBLIC WORKS.
2. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), WITH COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67 PER SECTION 200.05.03 OF THE STANDARD SPECIFICATIONS, AND SHALL HAVE A 1 TO 4 INCH SLUMP, AND 4 TO 7 PERCENT ENTRAINED AIR. 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF TYPE II CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL C-5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
4. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL BY CARSON CITY PUBLIC WORKS. A MINIMUM SURFACE OF 5 FEET X 5 FEET CLEAR IS REQUIRED WHEN DIRECTION OF TRAVEL MAY CHANGE AND A MINIMUM SURFACE OF 4 FEET CLEAR IS REQUIRED WHERE DIRECTION OF TRAVEL IS NOT EXPECTED TO CHANGE, UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
5. EXISTING CONCRETE SHALL BE REMOVED TO A NEAT SAWCUT LINE OR NEAREST EXPANSION JOINT.
6. ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND SHALL CONFORM TO SEC.200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
7. NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			SIDEWALK AND DRIVEWAY GENERAL NOTES	DRAWING NO. C-5.2.1
APPROVED BY:		7/09		DATE 7/2009

1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY CARSON CITY ENGINEERING DIVISION.
2. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF CEMENT PER CUBIC YARDS WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL C-5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
4. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL BY CARSON CITY PUBLIC WORKS DIRECTOR. A MINIMUM LANDING OF 5 FEET X 5 FEET CLEAR IS REQUIRED WHEN DIRECTION OF TRAVEL MAY CHANGE. A MINIMUM OF 4 FEET CLEAR IS MAY BE USED UPON APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR WHERE DIRECTION OF TRAVEL IS NOT EXPECTED TO CHANGE.
5. WHEN A CROSSWALK IS SERVICED BY RAMP, LANDINGS SHALL BE CONTAINED WITHIN THE CROSSWALK AREA.
6. EXISTING CONCRETE SHALL BE REMOVED TO A NEAT SAWCUT LINE OR NEAREST EXPANSION JOINT.
7. PLANTMIX BITUMINOUS SURFACE SHALL BE FLUSH WITH THE EDGE OF THE GUTTER PAN IN THE AREA OF THE CURB RAMP. GUTTER SHALL MAINTAIN POSITIVE DRAINAGE TO PREVENT PONDING.
8. ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND SHALL CONFORM TO SEC.200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
9. NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK.
10. DETECTABLE WARNINGS SHALL BE SUREDOME OR TEKWAY "NEVADA RED" OR APPROVED EQUAL.

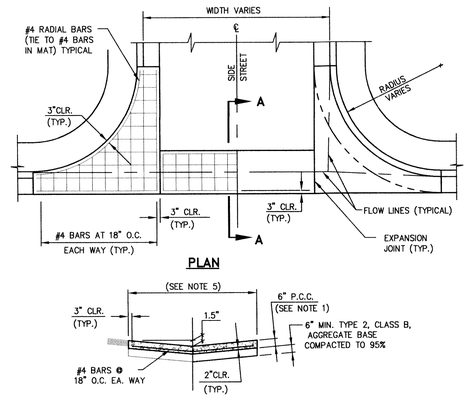
	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			CURB RAMP GENERAL NOTES (MODIFIED)	DRAWING NO. C-5.3.1
APPROVED BY:		7/09		DATE 7/2009



NOTES:

1. ALL CONCRETE EDGING AND JOINTING SHALL CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

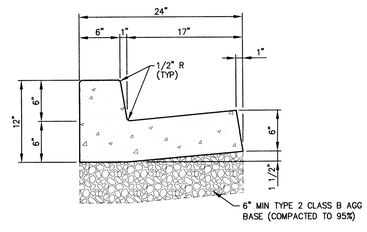
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			P.C.C. JOINTING DETAILS	DRAWING NO. C-5.1.1 (312)
APPROVED BY:		7/09		DATE 7/2009



NOTES:

1. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD),4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. POLYPROPYLENE FIBERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURER'S RECOMMENDATIONS.
2. FOR INDUSTRIAL AREAS, AN ENGINEERED DESIGN IS REQUIRED.
3. AGGREGATE BASE SHALL BE ENGINEERED TYPE 2, CLASS B WITH 95% COMPACTION.
4. VALLEY GUTTER SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET.
5. LOCAL AND COLLECTOR STREETS, WIDTH = 6 FEET. ARTERIAL STREETS (DRIVEWAYS ONLY), WIDTH = 10 FEET.
6. VALLEY GUTTER SECTIONS (SPANDRELS) ALONG CURB & GUTTER SHALL BE A MONOLITHIC POUR AS SHOWN.
7. ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL C-5.1.1 AND CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

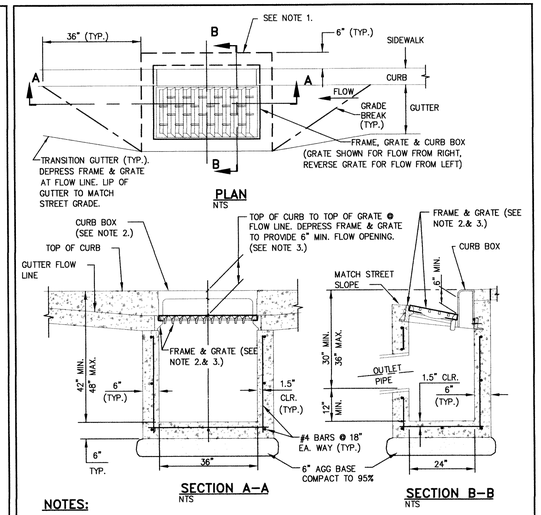
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			P.C.C. VALLEY GUTTER	DRAWING NO. C-5.1.2
APPROVED BY:		7/09		DATE 7/2009



NOTES:

1. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES ALL MATERIALS SHALL CONFORM TO SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. ALL CONCRETE CURB & GUTTER SHALL HAVE 1/2 INCH EXPANSION JOINTS EVERY 30 FEET (UNLESS APPROVED OTHERWISE BY THE ENGINEER) AND AT ALL CURB RETURNS AND SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET. CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL C-5.1.1 AND CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
3. ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND CONFORM TO SECTION 200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED TO 95% COMPACTION, IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. CURBS SHALL BE MARKED WITH A 2 INCH "S" ON THE TOP OF CURB AT SEWER LATERAL LOCATIONS.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			PCC CURB & GUTTER TYPE 1	DRAWING NO. C-5.1.3
APPROVED BY:		7/09		DATE 7/2009



NOTES:

1. IF NO SIDEWALK IS PRESENT, POUR 6 INCH CONCRETE CURB STRUCTURE BEHIND GRATE AND TIE BEAM INTO BOX.
2. FRAME AND GRATE SHALL BE CARSON CITY APPROVED TYPE L "VANE GRATE" INSTALLED WITH PROPER FLOW DIRECTION.
3. TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6 INCH MIN. FLOW OPENING & INSTALL DURABLE SHIMS BETWEEN THE CURB BOX & FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB (SEE SECTION B-B).
4. CATCH BASIN TO BE INSTALLED OUTSIDE OF WALKING PATH. IF IT IS NOT POSSIBLE TO LOCATE CATCH BASIN OUTSIDE OF WALKING PATH THEN AN ADA COMPLIANT NEENAH MODEL DR/DL GRATE, SOUTH BAY FOUNDRY 1947-ADA OR APPROVED EQUAL SHALL BE USED UPON APPROVAL BY CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			CATCH BASIN TYPE 4-R (MODIFIED)	DRAWING NO. C-4.1.5
APPROVED BY:		7/09		DATE 7/2009

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): N/A
SCALE (VERT): N/A
PLOT DATE: 2012APR18

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET ENHANCEMENT PROJECT
PROJECT No. 3-0907

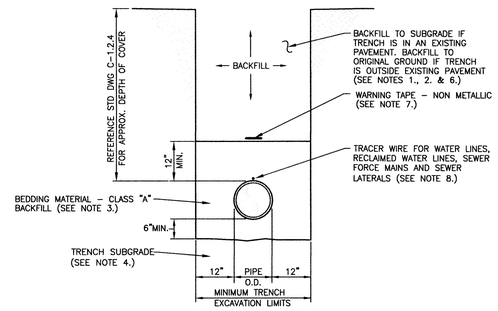
DETAILS

SHEET 17 OF 23

FEDERAL PROJECT NUMBER: STP-0025(021)

NDOT PROJECT NO. 73683

FOR BIDDING ONLY



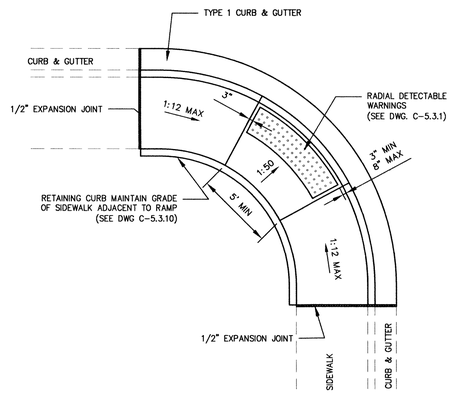
TYPICAL TRENCH SECTION

NTS

NOTES:

1. WATER DENSIFIED BACKFILL AND TUNNELING SHALL BE BY SPECIAL PROVISION ONLY.
2. BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E BACKFILL AS SPECIFIED IN SUBSECTION 200.03.06 OF THE SSPWC. MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305.10 OF THE SSPWC AND DENSIFIED TO 90% RELATIVE COMPACTION.
3. BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE SSPWC. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION.
4. PLANS SHALL INCLUDE A DETAIL FOR SUBGRADE STABILIZATION INCLUDING BACKFILL MATERIAL, STRUCTURAL GEOTEXTILE FILTER FABRIC AND MODIFIED CUTOFF COLLARS WHEN POTENTIAL FOR UNSTABLE SUBGRADES EXIST, SUBJECT TO THE APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
5. FOR TRENCHES IN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL (DWG. No. C-5.1.6).
6. FOR THE PURPOSE OF PAYMENT; EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON THESE STANDARD DRAWINGS, AND NO ADDITIONAL COMPENSATION WILL BE MADE. SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY, BUT THERE WILL BE NO ADDITIONAL PAYMENT. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
7. PLACE NON METALLIC WARNING TAPE 1 FOOT ABOVE ALL BURIED PIPES AND CONDUITS.
8. TRACER WIRE SHALL BE 12 GAUGE (MINIMUM THICKNESS) INSULATED SOLID COPPER OR COPPER-CLAD STEEL CORE WIRE. INSULATION SHALL BE 30 MIL HDPE; PLANS SHALL SPECIFY WIRE STRENGTH AND INSULATION THICKNESS FOR BORING APPLICATIONS. SPLICES SHALL BE CONNECTED BY WIRE NUTS, SEALED WITH AQUA SEAL OR SILICON FILLED, AND DOUBLE WRAPPED WITH U/L LISTED ELECTRICAL TAPE. TRACER WIRE COLOR SHALL BE, BLUE FOR WATER, PURPLE FOR RECLAIMED WATER, AND GREEN FOR SEWER.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			TRENCH EXCAVATION AND BACKFILL	DRAWING NO. C-1.2.1 (305)
APPROVED BY:		7/09		DATE 7/2009



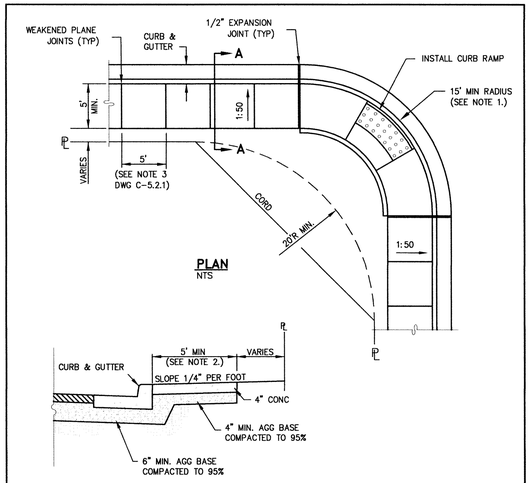
PLAN

NTS

NOTES:

1. NOT FOR USE WITH OFFSET SIDEWALKS.
2. RETAINING CURBS ARE TO BE USED IN ALL CASES AND FINISH GRADE AT BACK OF SIDEWALK IS TO BE RAISED TO TOP OF RETAINING CURB ELEVATION.
3. SEE "CURB RAMP GENERAL NOTES" DWG C-5.3.1 FOR FURTHER REQUIREMENTS.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			PARALLEL CURB RAMP APEX	DRAWING NO. C-5.3.5
APPROVED BY:		7/09		DATE 7/2009



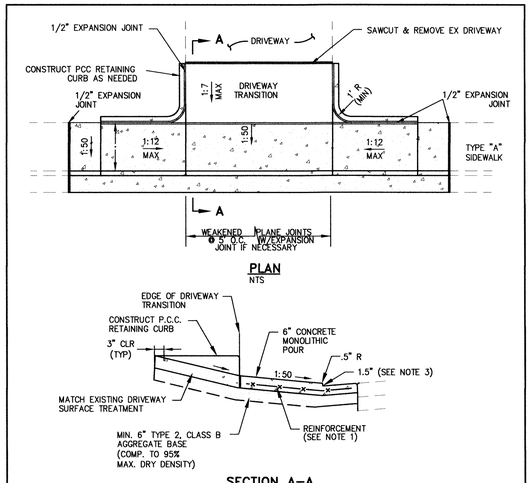
SECTION A-A

NTS

NOTES:

1. MINIMUM CURB RETURN RADIUS SHALL BE 15 FEET UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
2. SOME STREETS MAY REQUIRE WIDER SIDEWALKS.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			TYPE "A" SIDEWALK	DRAWING NO. C-5.2.2
APPROVED BY:		7/09		DATE 7/2009



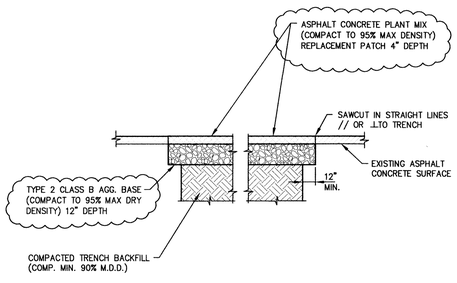
SECTION A-A

NTS

NOTES:

1. COMMERCIAL DRIVEWAYS TO HAVE 6 INCH X 6 INCH 10/10 WIRE MESH EXTENDED INTO GUTTER PAN.
2. DRIVEWAY LANDING, SIDEWALK, CURB & GUTTER TO BE MONOLITHIC POUR TO A.C. LINE.
3. CURB HEIGHT AT LANDING SHALL BE 1 INCH MINIMUM AND 2 INCH MAXIMUM (3 INCH MAX UPON CARSON CITY PUBLIC WORKS APPROVAL) 2 INCH RADIUS TO BE USED WHEN CURB HEIGHT AT LANDING IS GREATER THAN 2 INCHES.
4. DRIVEWAY APRONS SHALL BE CONSTRUCTED IN COMPLIANCE WITH STANDARD DETAILS C-5.1.1 AND C-5.2.1.

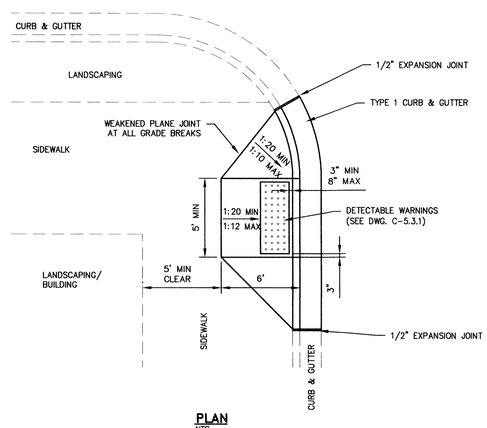
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			P.C.C. DRIVEWAY APRON TYPE 1	DRAWING NO. C-5.2.3
APPROVED BY:		7/09		DATE 7/2009



NOTES:

1. IF SAWCUT IS WITHIN 24 INCHES OF EDGE OF A.C. PAVEMENT REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
2. BITUMINOUS MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 201 AND 320 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. MIXING, SPREADING, AND COMPACTING OF BITUMINOUS PAVEMENT SHALL BE DONE ONLY WHEN THE SURFACE ON WHICH THE MATERIALS ARE TO BE PLACED IS DRY AND WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND HAS NOT BEEN BELOW 40 DEGREES FAHRENHEIT DURING THE PRECEDING 24 HOURS.
4. FINISHED SURFACE VARIATIONS SHALL BE 0 TO 0.25 INCHES ABOVE EXISTING SURFACE. ALL HUMPS EXCEEDING THIS TOLERANCE SHALL BE CORRECTED BY REMOVAL OF MATERIAL AND REPLACING IT WITH NEW MATERIAL. FINISHED SURFACE OF PATCH SHALL NOT BE BELOW EXISTING ADJACENT SURFACE.
5. PLANTMIX BITUMINOUS PAVEMENT SURFACE COURSE SHALL BE PG-64-22 TYPE 3 AND SUB SURFACE COURSES SHALL BE PG-64-22 TYPE 3 UNLESS OTHERWISE NOTED.
6. PLANTMIX BITUMINOUS PAVEMENT PATCHES SHALL MATCH EXISTING SECTION OR HAVE A MINIMUM THICKNESS OF 5 INCHES, WHICHEVER IS GREATER.
7. PLANS SHALL SPECIFY PAVEMENT PATCH AND AGGREGATE BASE DEPTHS AS SPECIFIED BY THE DESIGN ENGINEER.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
1	5" AC DEPTH	09/11	PAVEMENT PATCH (MODIFIED)	DRAWING NO. C-5.1.6
APPROVED BY:		09/11		DATE 7/2009



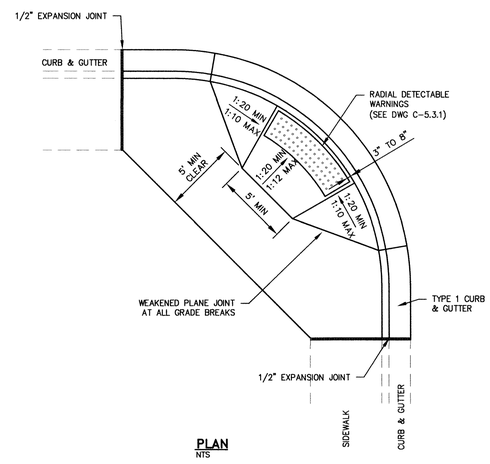
PLAN

NTS

NOTE:

1. SEE "CURB RAMP GENERAL NOTES" DWG C-5.3.1 FOR FURTHER REQUIREMENTS.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			PERPENDICULAR CURB RAMP DIRECTIONAL	DRAWING NO. C-5.3.2
APPROVED BY:		7/09		DATE 7/2009



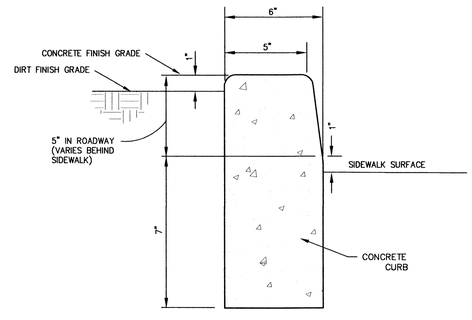
PLAN

NTS

NOTES:

1. SEE "CURB RAMP GENERAL NOTES" DWG C-5.3.1 FOR FURTHER REQUIREMENTS.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			PERPENDICULAR CURB RAMP APEX	DRAWING NO. C-5.3.3
APPROVED BY:		7/09		DATE 7/2009



NOTES:

1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY CARSON CITY PUBLIC WORKS
2. ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL 5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			P.C.C. RETAINING CURB	DRAWING NO. C-5.3.10
APPROVED BY:		7/09		DATE 7/2009

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): N/A
SCALE (VERT): N/A
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

FOR BIDDING ONLY

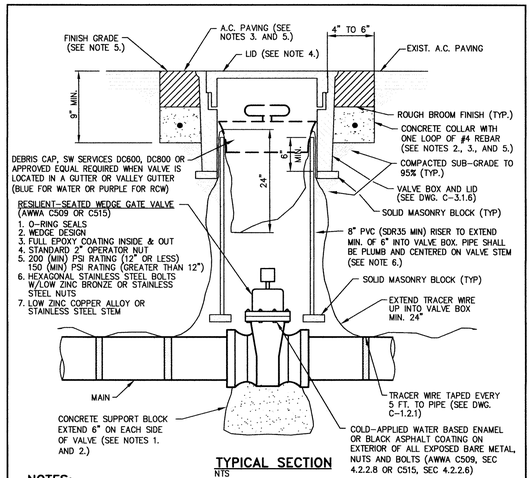
NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

NORTH ROOP STREET ENHANCEMENT PROJECT
PROJECT No. 3-0907

DETAILS

SHEET 18 OF 23

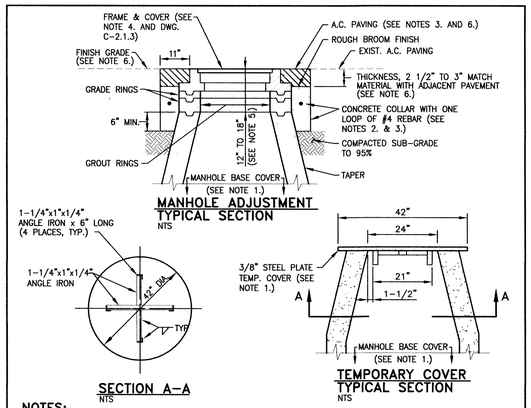


TYPICAL SECTION
NTS

NOTES:

1. SUPPORT BLOCKING SHALL BE POURED AGAINST UNDISTURBED SOIL AND NOT PREVENT ACCESS TO BOLT ASSEMBLY OR VALVE JOINTS.
2. CONCRETE SHALL CONFORM TO THE SSPWC SECTION 337.10. REBAR SHALL ONLY BE USED WHEN THE VALVE BOX IS LOCATED OUTSIDE PAVED AREAS.
3. THE CONCRETE COLLAR SHALL BE LEFT 2 1/2 INCHES – 3 INCHES BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 PG 64-22 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO THE SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND EVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.
4. LIDS SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED.
5. WHEN LOCATED IN NDOT RIGHT-OF-WAY, CONCRETE COLLAR SHALL CONFORM TO NDOT STANDARD PLAN SHT R-4.3.3 AND STANDARD SPECIFICATION 609.
6. RISER COLOR SHALL BE BLUE, OR SAME COLOR AS MAIN FOR WATER APPLICATIONS, PURPLE FOR RECLAIMED WATER APPLICATIONS, AND GREEN FOR SANITARY SEWER APPLICATIONS.
7. VALVES ON FIRE LINES SHALL BE UL/FM APPROVED AND MEET ALL APPLICABLE NFPA REQUIREMENTS.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			GATE VALVE	CARSON CITY
				DRAWING NO. C-3.1.4 (203,307)
APPROVED BY:		07/09		DATE 7/2009



MANHOLE ADJUSTMENT TYPICAL SECTION
NTS

SECTION A-A
NTS

TEMPORARY COVER TYPICAL SECTION
NTS

NOTES:

1. INSTALL TEMPORARY COVER WITH CONE INSTALLATION WHEN INSTALLING NEW MANHOLE OR PRIOR TO REMOVING EXISTING FRAME & COVER AND GRADE RINGS TO ADJUST TO FINISH GRADE. INSTALL COVER OVER MANHOLE BASE TO PREVENT DEBRIS FROM ENTERING SEWER SYSTEM. THE MANHOLE BASE COVER SHALL BE IN PLACE PRIOR TO PERFORMING ANY ADJUSTMENTS OR GROUTING AND SHALL REMAIN IN PLACE WHILE ADJUSTMENTS OR GROUTING ARE BEING PERFORMED. REMOVE BASE COVER UPON ADJUSTMENT APPROVAL BY CARSON CITY.
2. CONCRETE SHALL CONFORM TO THE SSPWC SECTION 202.01.12. REBAR SHALL BE USED ONLY WHEN THE MANHOLE IS LOCATED OUTSIDE PAVED AREAS.
3. THE CONCRETE COLLAR SHALL BE LEFT 2 1/2 INCHES TO 3 INCHES BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 AC 20 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND EVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR LOCATED IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.
4. INSTALL NEW FRAME & COVER UNLESS OTHERWISE SHOWN ON THE PLANS OR SPECIAL CONDITIONS. FRAME & COVER SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED.
5. FOR NEW MANHOLE INSTALLATIONS, DISTANCE FROM COVER TO CONE SHALL BE 12 INCHES MINIMUM AND 15 INCHES MAXIMUM FOR MINOR RESIDENTIAL STREETS AND 15 INCHES MINIMUM AND 18 INCHES MAXIMUM FOR ALL OTHER STREETS. FOR ADJUSTING EXISTING FRAME & COVERS THE DISTANCE FROM COVER TO CONE SHALL NOT EXCEED 18 INCHES.
6. WHEN LOCATED IN NDOT RIGHT-OF-WAY, CONCRETE COLLAR SHALL CONFORM TO NDOT STANDARD PLAN SHT R-4.7.3 AND STANDARD SPECIFICATION 609.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			MANHOLE FRAME & COVER ADJUSTMENT	CARSON CITY
				DRAWING NO. C-2.1.5 (204, 323)
APPROVED BY:		7/09		DATE 7/2009

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): N/A
SCALE (VERT): N/A
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET ENHANCEMENT PROJECT
PROJECT No. 3-0907

DETAILS

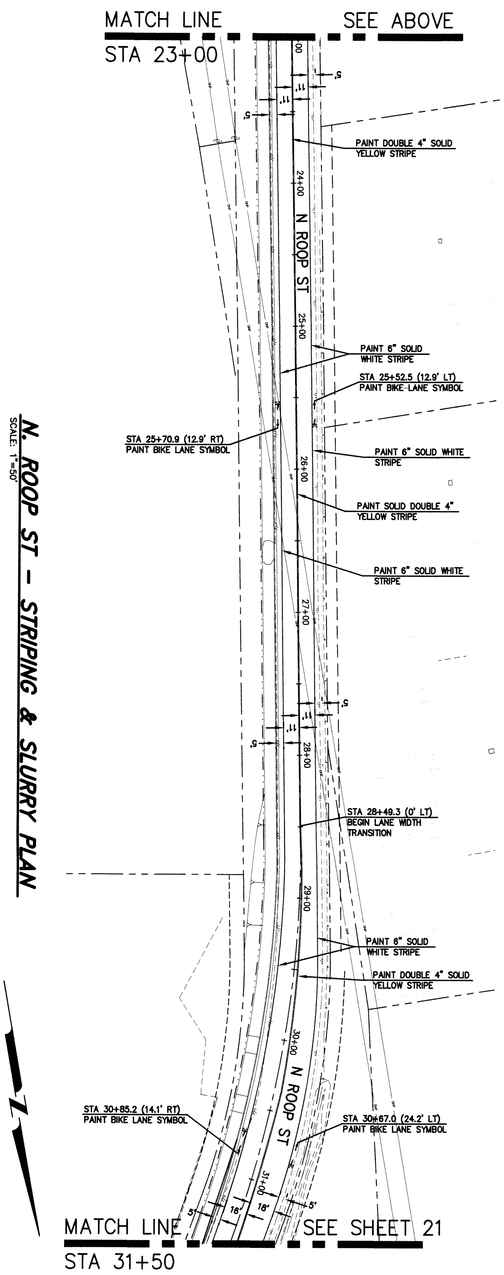
SHEET 19 OF 23

FEDERAL PROJECT NUMBER: STP-0025(021)

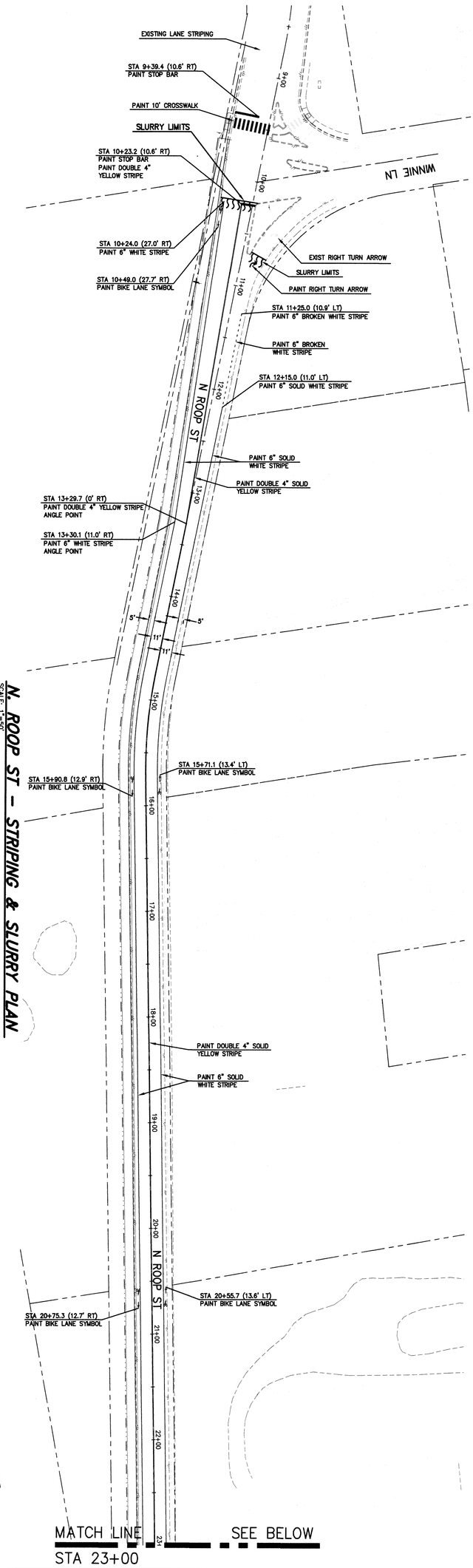
NDOT PROJECT NO. 73683

FOR BIDDING ONLY

H:\Projects\3.0907 Roop at northridge sidewalk\dwg\3-0907bs1.dwg, 20-STRIPE01, 5/10/2012 12:56:58 PM, ddoyal



N. ROOP ST – STRIPING & SLURRY PLAN
SCALE: 1"=50'



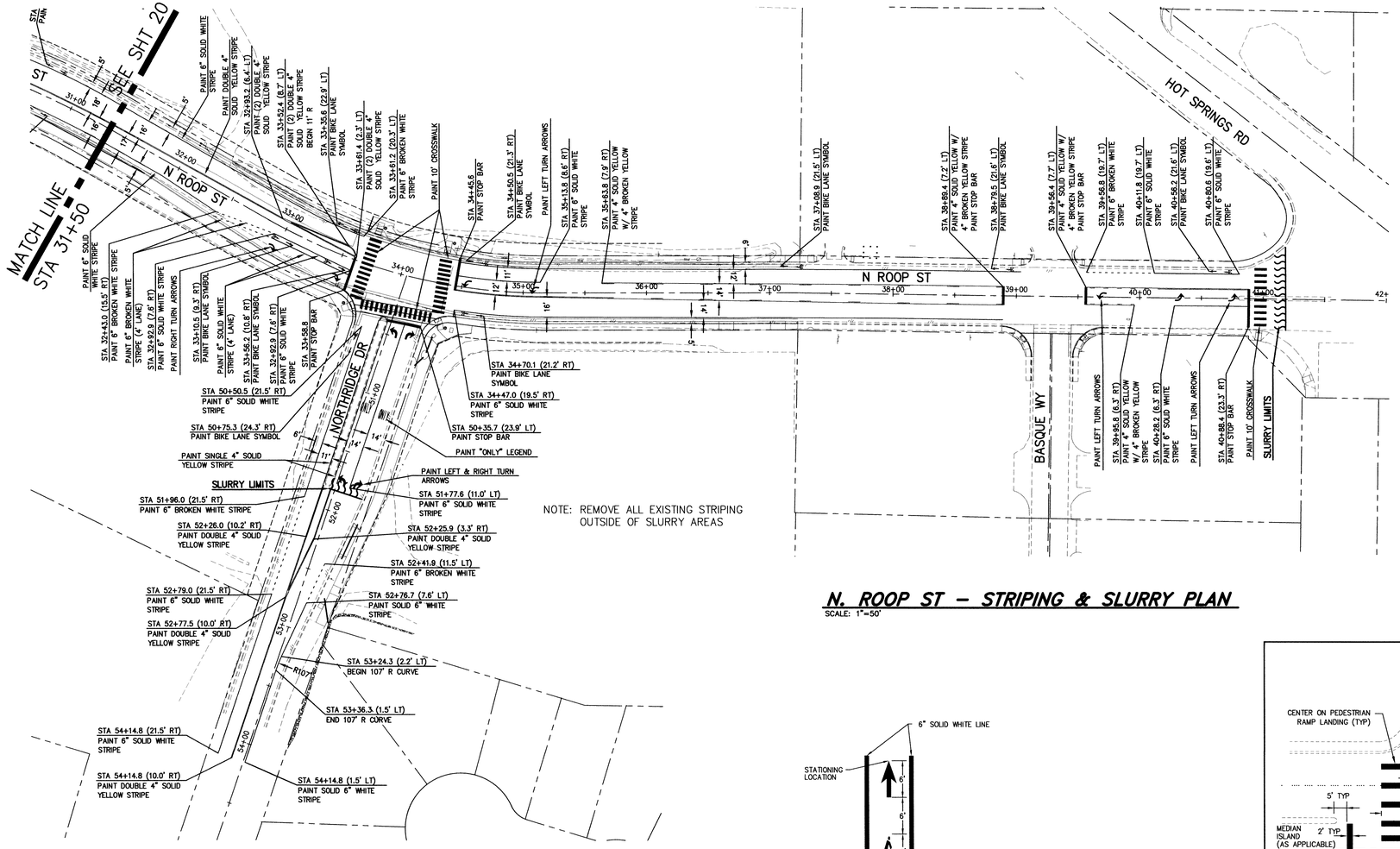
N. ROOP ST – STRIPING & SLURRY PLAN
SCALE: 1"=50'

NOTE: REMOVE ALL EXISTING STRIPING OUTSIDE OF SLURRY AREAS

SCALE
HORIZ: 1" = 50'

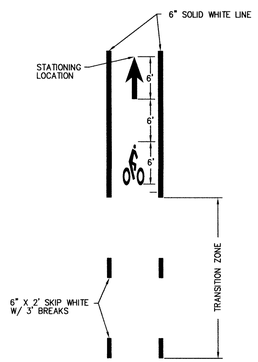
SHEET 20 OF 23	NORTH ROOP STREET ENHANCEMENT PROJECT PROJECT No. 3-0907 STRIPING & SLURRY PLAN STA 9+00 TO STA 31+50	REV. / DATE / DESCRIPTION / BY / APP'D	PROFESSIONAL ENGINEER STATE OF NEVADA ROBERT D. FELLOWS CIVIL No. 12497 EXP: 6/30/13 5/11/12	CARSON CITY PUBLIC WORKS DEPARTMENT 3505 BUTTI WAY CARSON CITY, NEVADA 89701 PH: 887-2355 FAX: 887-2112	DESIGNED BY: BD DRAWN BY: BD CHECKED BY: RF DWG NO.: 3-0907BS1 SCALE (HORIZ): 1"=50' SCALE (VERT): N/A PLOT DATE: 2012MAY10		

FEDERAL PROJECT NUMBER: STP-0025(021) NDOT PROJECT NO. 73683 FOR BIDDING ONLY



N. ROOP ST – STRIPING & SLURRY PLAN

SCALE: 1"=50'



BIKE LANE DELINEATION AND LEGEND

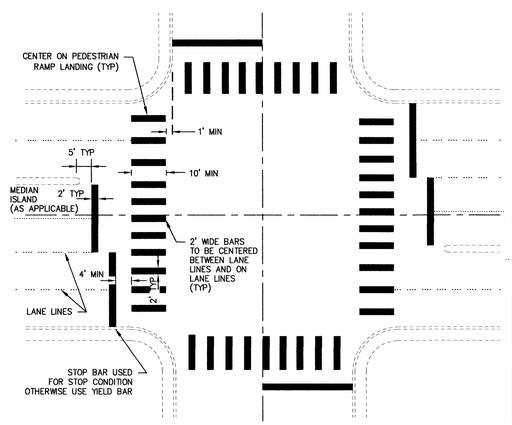
NOTES:

1. BICYCLE LANE DELINEATION, LEGEND, AND SIGNING SHALL CONFORM TO THE MUTCD LATEST EDITION.
2. PER THE MUTCD LATEST EDITION, BICYCLE LANE SIGNS SHALL BE USED IN ADVANCE OF THE BEGINNING OF A MARKED BICYCLE LANE.

BICYCLE LANE DELINEATION

N.T.S.

1/21



TYPICAL CROSSWALK STRIPING DETAIL

NOTES:

1. ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, CURRENT EDITION.
2. INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
3. CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL TRAFFIC SIGNAL LOCATIONS AND AT OTHER LOCATIONS AS DIRECTED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			CROSSWALK LEGEND	DRAWING NO. C-5.4.3
APPROVED BY:		7/09		DATE 7/2009

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=50'
SCALE (VERT): N/A
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

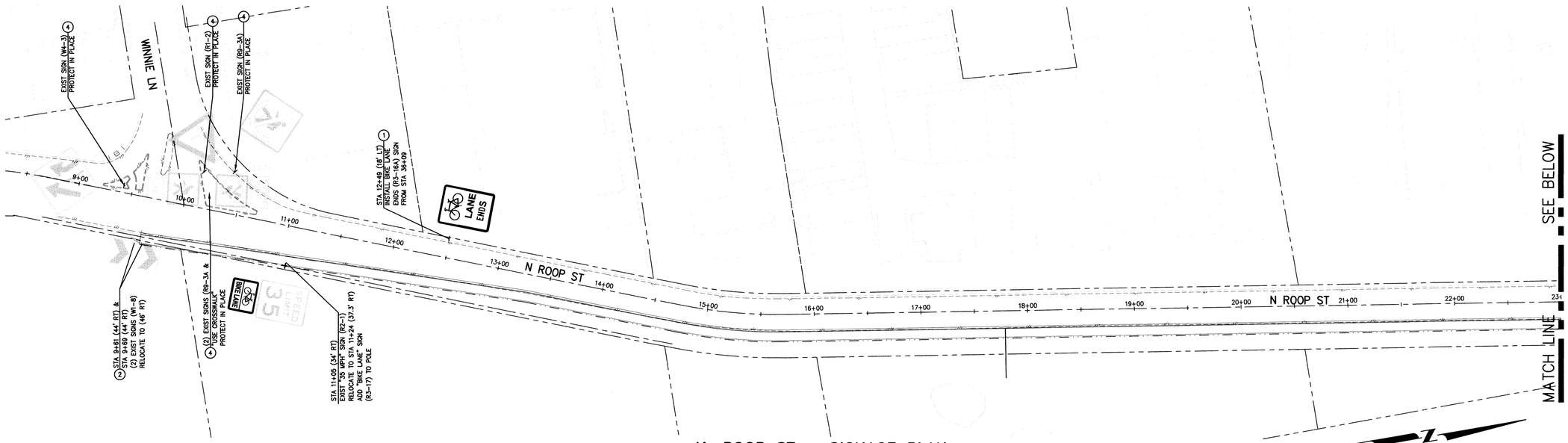
NORTH ROOP STREET ENHANCEMENT PROJECT
PROJECT No. 3-0907
STRIPING & SLURRY PLAN
STA 31+50 TO STA 42+00

SHEET 21 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)



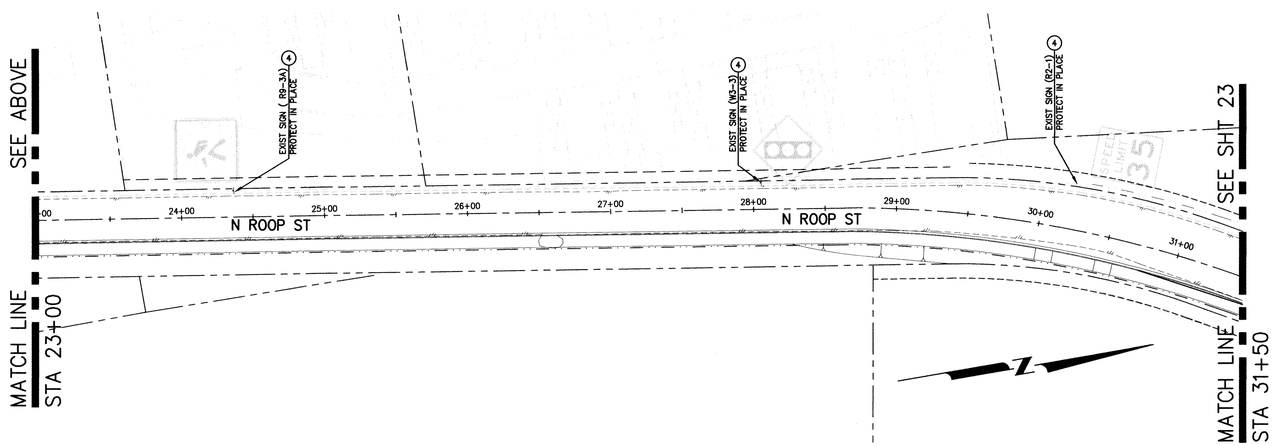
N. ROOP ST – SIGNAGE PLAN

SCALE: 1"=50'

SCALE
50 0 25 50
HORIZ: 1" = 50'

CONSTRUCTION NOTES

1. INSTALL TRAFFIC SIGN AND POST PER DRAWING C-5.4.2.
2. RE-INSTALL EXISTING SIGN(S) ON NEW POST PER STD DRAWING C-5.4.2.
3. INSTALL NEW TRAFFIC SIGN ON EXISTING POST PER STANDARD DRAWING C-5.4.2.
4. PROTECT IN PLACE.



N. ROOP ST – SIGNAGE PLAN

SCALE: 1"=50'

SIGN TABLE

STREET	APPROX EX STA. (FT)	APPROX EX OFFSET (FT)	SIGN	DESCRIPTION SIGN TEXT	REUSE OR NEW	INSTRUCTIONS	NEW OR USED SIZE (IN)	NEW STA (FT)	OFFSET (FT)
N ROOP ST	9+61	44.4(R)	W1-8	CHEVRON	REUSE	RE-INSTALL	18 X 24	9+61	45.8(R)
N ROOP ST	9+69	44.6(R)	W1-8	CHEVRON	REUSE	RE-INSTALL	18 X 24	9+69	45.4(R)
N ROOP ST	11+05	34(R)	R2-1	SPEED LIMIT	REUSE	RE-INSTALL 35MPH	24 X 30	11+24	37.3 (R)
N ROOP ST	N/A	N/A	R3-17	BIKE LANE	NEW	INSTALL BELOW SPEED SIGN	24 X 18	11+24	37.3 (R)
N ROOP ST	36+10	31.4(L)	R3-16A	BIKE LANE ENDS	REUSE	INSTALL SIGN	24 X 18	12+50	18.0 (L)
N ROOP ST	N/A	N/A	R4-4	YIELD TO BIKES	NEW	INSTALL SIGN	36 X 30	32+34	30.4 (R)
N ROOP ST	33+15	26.5(R)	R2-1	SPEED LIMIT	REUSE	RE-INSTALL 25MPH	24 X 30	33+15	35.1(R)
N ROOP ST	33+15	26.5(L)	R9-3	NO PEDS	N/A	REMOVE, SALVAGE TO CITY	N/A	N/A	N/A
N ROOP ST	34+12	45.3(L)	W1-8	CHEVRON	REUSE	RE-INSTALL	18 X 24	34+05	32.2(L)
N ROOP ST	34+18	45.2(L)	W1-8	CHEVRON	REUSE	RE-INSTALL	18 X 24	34+10	32.1(L)
N ROOP ST	34+24	45(L)	W1-8	CHEVRON	REUSE	RE-INSTALL	18 X 24	34+15	32.1(L)
N ROOP ST	34+30	44.8(L)	W1-8	CHEVRON	REUSE	RE-INSTALL	18 X 24	34+21	32.0(L)
N ROOP ST	N/A	N/A	R3-17	BIKE LANE	NEW	INSTALL SIGN	24 X 18	32+98	30.6(L)
N ROOP ST	N/A	N/A	R9-3	NO PEDS	NEW	INSTALL BELOW BIKE SIGN	18 X 18	32+98	30.6(L)
N ROOP ST	35+12	30(R)	R3-17	BIKE LANE	REUSE	RE-INSTALL	24 X 18	35+12	32(R)
N ROOP ST	38+11	33(R)	R10-7	DO NOT BLOCK	NEW	INSTALL BELOW BIKE SIGN	24 X 30	38+11	33(R)
NORTHRIDGE DR	EAST	N/A	OM1-3	YELLOW DIAMOND	NEW	INSTALL BELOW R4-1 SIGN	18 X 18	N/A	N/A
NORTHRIDGE DR	WEST	N/A	R4-7	KEEP RIGHT	NEW	INSTALL SIGN	24 X 30	WEST	N/A
NORTHRIDGE DR	WEST	N/A	OM1-3	YELLOW DIAMOND	NEW	INSTALL BELOW R4-1 SIGN	18 X 18	WEST	N/A

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=50'
SCALE (VERT): N/A
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. FELLOWS
Exp: 6/30/13
CIVIL
No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET
ENHANCEMENT PROJECT
PROJECT No. 3-0907

SIGNAGE PLAN
STA 9+00 TO STA 31+50

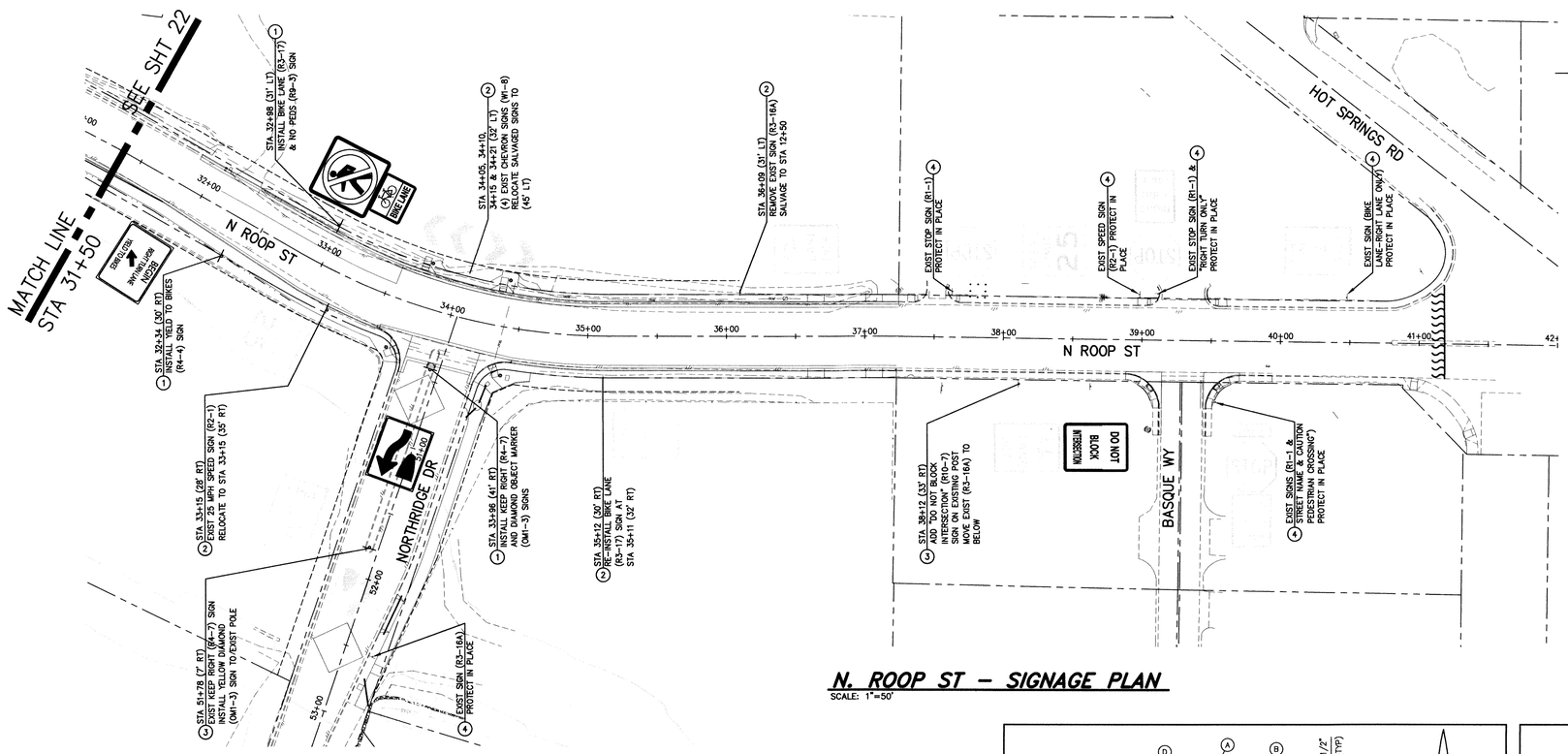
SHEET 22 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

H:\Projects\3.0907 Roop st northridge sidewalk\dwg\3-0907bs1.dwg, 22-dgn01, 5/10/2012 12:55:28 PM, bdryan

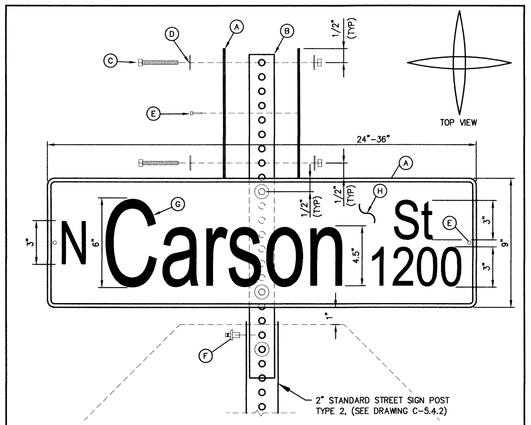


N. ROOP ST – SIGNAGE PLAN

SCALE: 1"=50'

CONSTRUCTION NOTES

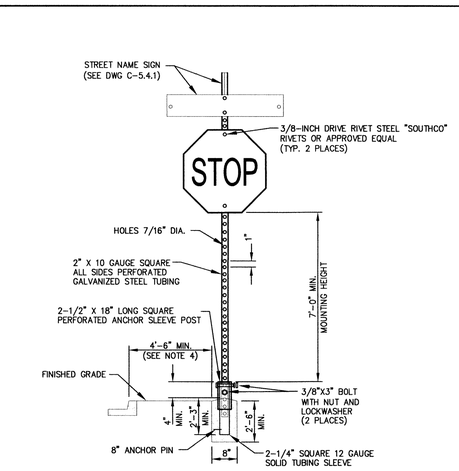
1. INSTALL TRAFFIC SIGN AND POST PER DRAWING C-5.4.2.
2. RE-INSTALL EXISTING SIGN(S) ON NEW POST PER STD DRAWING C-5.4.2.
3. INSTALL NEW TRAFFIC SIGN ON EXISTING POST PER STANDARD DRAWING C-5.4.2.
4. PROTECT IN PLACE.



NOTES:

1. STREET NAME SIGN SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE M.U.T.C.D.
2. LETTERING FONT SHALL BE "HIGHWAY EM".
3. SUBMITTAL REQUIRED TO CITY FOR LONGER NAMES OR DROP LETTERS.
4. MATERIALS SHALL CONSIST OF:
   - A. (4) FLAT PLATE ALUMINUM NO. 6061-T6, .080 GAUGE.
   - B. (1) 2-FOOT LONG 1 3/4-INCH "TELESPAR" OR EQUIVALENT
   - C. (4) 2 1/2-INCH LONG, 5/16-INCH SAE GRADE 5 BOLT & NUT
   - D. (8) FLAT WASHERS
   - E. (4) 1/8-INCH DIAMETER, STEEL POP RIVET (MEDIUM LENGTH) WITH 1/8-INCH WASHER (ALUMINUM OR STEEL)
   - F. (1) 3/8-INCH DRIVE RIVET STEEL "SOUTHCO"
   - G. WHITE SHEETING – RETROREFLECTIVE ASTM IX DIAMOND GRADE VIP "3M" OR EQUIVALENT
   - H. GREEN SHEETING – TRANSPARENCY ELETRO CUT FILM 1177C "3M" OR EQUILVALENT

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			STREET NAME SIGN AND MOUNTING	DRAWING NO. C-5.4.1
APPROVED BY:		7/09		DATE 7/2009



NOTES:

1. SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. STREET NAME SIGN SHALL BE AS SPECIFIED IN STANDARD DETAIL DRAWING NO. C-5.4.1
3. ON STREETS WHERE CURBING DOES NOT EXIST, SET SIGN 6 FEET MINIMUM FROM PAVEMENT EDGE.
4. CONCRETE BASE SHALL BE LOCATED AT BACK OF SIDEWALK, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
5. ALL REGULATORY SIGNS SHALL USE ASTM TYPE 3 OR 4 INTENSITY SHEETING.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			TRAFFIC SIGN INSTALLATION	DRAWING NO. C-5.4.2
APPROVED BY:		7/09		DATE 7/2009

DESIGNED BY: BD
DRAWN BY: BD
CHECKED BY: RF
DWG NO.: 3-0907BS1
SCALE (HORIZ): 1"=50'
SCALE (VERT): N/A
PLOT DATE: 2012MAY10

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA ROBERT D. FELLOWS Exp: 6/30/13 CIVIL No. 12497
5/11/12

REV.	DATE	DESCRIPTION	BY	APP'D

NORTH ROOP STREET ENHANCEMENT PROJECT
PROJECT No. 3-0907
SIGNAGE PLAN
STA 31+50 TO STA 42+00

SHEET 23 OF 23

FOR BIDDING ONLY

NDOT PROJECT NO. 73683

FEDERAL PROJECT NUMBER: STP-0025(021)

H:\Projects\3.0907 Roop st northridge sidewalk\dwg\3-0907bs1.dwg, 23-dgn02, 5/10/2012 12:54:26 PM, bdsyd